
APPENDIX E

LABORATORY QUALITY ASSURANCE REPORT

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METRO Environmental Laboratory Quality Assurance Review

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QC Data

● Conventional	not numbered
● Metals	not numbered
● Organics	not numbered

INTRODUCTION

This QA review accompanies data submitted for the Denny Way Capping project. This QA review is organized into four sections, as follows:

- General Comments
- Conventional
- Metals
- Organics

An overview of the approach used for this QA review is detailed in the *General Comments* section which follows. Additional comments specific to each analysis are included in the appropriate section for that analysis.

This QA1 review has been conducted in accordance with guidelines established thorough the PSDDA program, primarily in the *Puget Sound Dredged Disposal Analysis Guidance Manual, Data Quality Evaluation for Proposed Dredged Material Disposal Projects*. Additionally, many of the approaches incorporated in this QA1 review have been established through collaboration between METRO and the Washington Department of Ecology Sediment Management Unit.

GENERAL COMMENTS

SCOPE OF SAMPLES SUBMITTED

This Quality Assurance Review is associated with Marine Sediment samples taken from 1988 through 1992. These samples were taken in support of the Denny Way capping project. Except where noted in the subcontracting sections of this QA review, all analyses have been conducted at the METRO Environmental Laboratory. The data are reported with associated data qualifiers and have undergone QA1 review, as summarized in this narrative report.

COMPLETENESS

Completeness has been evaluated for this data submission and QA review by considering the following criteria:

- Comparing available data with the planned project analytical scheme.
- Compliance with storage conditions, preservation requirements and hold times.
- A complete set of QC samples should be associated with each analysis.

Instances where these conditions are not met are noted in the appropriate section of this narrative.

In some instances, the documentation of data archiving is not sufficient to locate a desired document or series of documents. When it is noted in the text that data are not available, this refers to insufficient documentation of data archiving.

TARGET LIST

The reported target list has been compared to the substances listed on the *Sediment Quality Standards-Chemical Criteria* to ensure that all applicable parameters have been analyzed, reported and included in this QA review.

DETECTION LIMITS

Achieved detection limits have been compared to the *Sediment Quality Standards-Chemical Criteria* to ensure that reported detection limits are sufficient to compare the reported data to the criteria values. This comparison is summarized in the appropriate section of this report.

The METRO lab distinguishes between the Method Detection Limit (MDL) and the Reporting Detection Limit (RDL).

- The RDL is defined as the *minimum concentration of a constituent that can be reliably quantified*.
- The MDL is defined as the *minimum concentration of a constituent that can be detected*.

Some METRO data is available with only an MDL, in accordance with lab policy at the time of data generation. Some subcontractor data is available with an MDL only, in accordance with the subcontracting lab policies. All analytical data is reported with either a result or a detection limit.

HOLDING CONDITIONS AND TIMES

Holding conditions and times have been evaluated using guidelines established during the *Third Annual PSDDA Review Meeting*. Note that the approach used to evaluate TOC for hold time has been established between METRO and DOE during previous QA1 review efforts.

METHOD BLANK

Method blanks have been evaluated for the presence of positive results at or greater than the MDL. These instances and the qualification of the associated data are noted in the appropriate section.

STANDARD REFERENCE MATERIAL

Data have been qualified based on available SRM results. Instances of data reported without associated SRM analysis are noted in the narrative.

REPLICATES

Data have been qualified based on replicate results. However, not all replicate data have been used as an indicator for data qualification. Only sets of replicate results which contain at least one result significantly greater than the MDL have been considered for data qualification. Where an RDL is present, only replicate data that contains at least one result greater than the RDL have been considered for data qualification. These guidelines have been used to account for the fact that precision obtained near the MDL is not representative of precision obtained throughout the entire analytical range.

MATRIX SPIKES

Matrix spikes have been used to qualify data for both organics and metals data. Matrix spikes are not required for conventional parameters.

DATA QUALIFIERS

The data qualification system used for this data submission is listed in Table 1 of this QA review. These data qualifiers address situations which require qualification, according to QA1 guidance. The exact qualifiers used generally conform to

QA1 guidance. METRO qualifiers indicating <MDL and <RDL have been used as replacements for the *T* and *U* specified under QA1 guidance.

SUBCONTRACTING

Analysis which have been subcontracted, and the issues associated with these subcontracted analyses are noted in this narrative. Note that the following parameters have always been submitted to a subcontractor for analysis:

- total organic carbon
- particle size distribution

UNITS AND SIGNIFICANT FIGURES

Data have been reported in accordance with lab policy at the time of data generation. When an RDL and MDL are reported, data have been reported to two significant figures above the RDL, and one significant figure below the MDL. Data with only an MDL have been reported to two significant figures.

All inorganic analytical results are reported in mg/Kg on a dry weight basis, whereas organic results are in ug/Kg on a dry weight basis.

Data is stored in a wet weight basis on the data base and converted to dry weight during the reporting process. Where only one reported digit is available, rounding error can be significant. This rounding error can occur during the conversion from wet to dry weight.

CONVENTIONALS

COMPLETENESS

Data have been evaluated for completeness and those comments are noted below.

Percent Solids results have been reported for all samples listed in the attached inventory. For some samples, Percent Solids is the only conventionals parameter reported for a sample. For these samples, if the result has already been reported with the metals and/or organics data it may not have been reported again with the conventionals data.

Available raw data have been used to spot check reported results for Percent Solids from 1988, 1989, 1990, 1991, and 1992 and in all instances checked the reported data agrees with raw data.

Raw data are not available to verify Percent Solids results in the following instances:

- Samples 8905264, 8905265, 8905266, and 8905267 were collected by a contractor and subcontracted to another laboratory for Percent Solids analysis.
- Raw data for Percent Solids analysis is not available for sample 9000395. The reported Percent Solids result of 77.0% was recorded on trace metals and organics reports for dry weight normalization, and has been reported in this data submission.

Particle Size Distribution results are reported when available. There are no quality control data available for this parameter. Due to the difficulty of obtaining raw data from various subcontractor laboratories it has been agreed between METRO and the WA DOE that these analysis would be provided primarily for informational purposes. All reported PSD data are qualified with the data qualifier "E".

METHODS

For TOC, PSEP (page 23) was used for preparation and SW 9060 was used for analysis. For Percent Solids, SM 2540 was used.

Particle size distribution performed in 1991 and 1992 were by methodology in accordance with PSEP (page 9). Information regarding methodology employed for PSD prior to 1991 are not available.

TARGET LIST

The reported phi size for particle size distribution corresponds to data obtained from the subcontracting laboratory.

DETECTION LIMITS

A positive result has been reported for all percent solid and TOC values. Note that the subcontractor lab does not provide a reporting detection limit for TOC. Only a method detection limit (MDL) is available for this parameter.

Reported MDL for particle size distribution agree with data provided from the subcontractor at the time of analyses. RDL are not reported for PSD analyses.

HOLDING CONDITIONS AND TIMES

For samples that have been frozen, the recommended holding time for TOC is 6 months. There were no commonly accepted hold times for refrigerated TOC sediment samples until guidance released after the 1991 Third Annual PSDDA Review Meeting. The subcontracting laboratory has used the following guidelines for TOC hold times:

PARAMETER	PREPARATION HOLD TIME	TOTAL HOLD TIME
TOC	1 week from collection	28 days from collection

It was the subcontracting laboratory's standard practice to analyze samples within the above time guidelines during the period of time TOC samples from this project were submitted for analysis.

Similarly, there are recently established holding times for the determination of Percent Solids. Spot checking of available data indicates that this determination was generally conducted within one week, and always within one month of the sampling date.

METHOD BLANK

Ten unique TOC method blanks have been included in the raw data section. There is no indication of positive bias in the method blank results.

STANDARD REFERENCE MATERIAL

Eleven SRM samples have been reported in association with the reported TOC samples. There is no clear indication of a need to qualify any of the TOC data based on the SRM results. Note that in one instance, an SRM recovery of 119.6% was obtained. The only sample associated with this SRM was sample 9000395. The data was not qualified, because the result was compliant and within the acceptance criteria outlined in Table 2.

REPLICATES

Four TOC replicates have been included in the data submission. In one instance duplicate RPD was greater than 20%. The samples for which this duplicate RPD (41.4%) was reported are: 9000427, 9000428, 9000429, 9000430, 9000431, 9000432, 9000433, 9000434, 9000435, and 9000436. TOC data for these samples have consequently been qualified with an "E" for estimate.

Sample 9201379 was analyzed in triplicate for TOC and resulted in values of 0.61, 0.47, and 0.46 % dry weight. The first result, 0.61%, was considered to be an outlier and a value of 0.47% was reported.

Replicate analytical results are not available for percent solids determinations. A comparison of available interlab duplicates, between METRO and the subcontractor, is shown below:

SAMPLE	METRO PERCENT SOLIDS IN %	AMTEST PERCENT SOLIDS IN %
9201091	68	68
9201092	61	59
9201093	64	68
9201094	67	67
9201095	71	71

It was not standard practice to request percent solids along with TOC analyses and data are not available to conduct an extensive comparison. However, the above comparison does provide a measure of confidence for this parameter.

MATRIX SPIKES

Matrix spike data is not reported for TOC. Matrix spikes are not required for Conventionals parameters.

UNITS AND SIGNIFICANT FIGURES

Data have been reported in accordance with lab policy at the time of data generation. Results have been reported to two significant figures for total solids, TOC and particle size distribution. Note that results for TOC and PSD are reported to two significant figures for all values, as only the MDL has been provided by the subcontractor.

Note that TOC data was reported to METRO by the subcontracting lab in a dry weight basis. This data has been calculated to a wet weight basis to load to the METRO data base and subsequently calculated to a dry weight basis for this data submission.

METALS

COMPLETENESS

Analytical results are reported for all samples listed in Table 1 of this QA review.

Quality Control data are not available for the elements antimony and thallium for samples collected in 1988. Raw data archiving for this analysis has not been sufficiently documented and raw data are not available. According to lab personnel, these samples were analyzed by the standard addition method. Although conventional QA1 quality control samples are not available, the 1988 antimony and thallium data have been qualified with the estimate flag of "E" due to the fact that standard addition is a rigorous method of analysis.

Quality Control data are not available for the elements arsenic and selenium for the samples collected in 1988 and 1989. Raw data archiving for this analysis has not been sufficiently documented and the raw data are not available. According to lab personnel, these samples were analyzed by hydride generation. Although conventional QA1 quality control samples are not available, the arsenic and selenium data for the years 1988 and 1989, have been qualified with the estimate flag of "E".

While these antimony, arsenic, selenium and thallium data are not compliant with QA1 review, note that these analyses were performed before the QA1 guidance document (Data Quality Evaluation for Proposed Dredged Material Disposal Projects) was released.

Sample numbers 8905264-8905267 were contracted to The Department of the Navy, Corps of Engineers for analysis. Only SRM QC results are available for these samples and the sample results are qualified with the estimate flag of "E", due to the limited QC information for these samples.

Additionally, instances of completeness regarding an incomplete set of quality control samples are noted in the appropriate section of the metals QA review.

METHOD

The methods used for the analysis of trace metals in this data set are listed in the table below. The descriptive heading information "M.Code = " on the comprehensive report, associates the elements in this data set, with the specific method used for trace metals determination.

Listing of Metals Methods

M.CODE	METHOD
PE	EPA Method 3050/6010
CV	EPA Method 7471
GF	EPA Method 7040
HE	Hydride Generation
FL	Flame AA

Recent metals sediment data has been obtained using ICP, with the exception of Hg. Metro feels that qualifiers derived from ICP metals QC provide an effective assessment at data quality. The 1990 GFAA data for Sb, Tl, As, and Se has been qualified using associated QC data. Analysts feel that these qualifiers provide an indication at data quality, within the limits of this methodology for this matrix.

TARGET LIST

The reported target list contains all *Sediment Quality Standards-Chemical Criteria* metals for all samples. Additional metals have been reported as available.

DETECTION LIMITS

A positive result or a detection limit (MDL) have been reported for all metals. All reported detection limits for metals analysis are below *Sediment Quality Standards-Chemical Criteria* for metals.

HOLDING CONDITIONS AND TIMES

For samples that have been frozen, the recommended holding time for all metals except mercury is 6 months. Samples that have been frozen should be analyzed for mercury within 28 days. All holding times were met for the elements in this report.

METHOD BLANK

All results which have been corrected for blank contribution are qualified with the "B" qualifier.

Note that metals results are corrected for the concentration of metals determined in the method blanks. This correction is performed when the metal concentration found in the blank exceeds the method detection limit. Many of these corrections have been performed after taking the average of two method blank determinations. This process has not been sufficiently documented to differentiate between results which have been corrected from one or two method blank determinations

Method blank contamination is not a significant factor affecting data quality for nearly all analytical batches. In general, observed contamination levels are close to the reported MDL. Contamination significantly above the reported MDL for Sediment Quality Standards metals was observed in the following instances:

SAMPLES	Comment
9000395	zinc contamination observed
9201189-9201206	lead contamination observed

Aluminum contamination at concentrations significantly above the MDL have been commonly observed in the blanks associated with the reported data. Associated data, as noted above, are qualified with the data qualifier "B".

STANDARD REFERENCE MATERIAL

All metal samples reported in this data submission have been analyzed in conjunction with a Standard Reference Material with the exception of the following samples: 9201091-9201095, 9201595-9201596 for which a Hg SRM was not analyzed. Three reference materials have been analyzed in association with METRO analytical results, and are listed below:

SRM	Comment
2704-Buffalo River Sediment	does not contain silver
NR CC-PACS 1	does not contain silver
NR CC-MESS 1	does not contain silver and antimony

Note that additional SRM samples have also been analyzed and reported with the samples submitted for subcontracting, as listed on the QC report for the subcontracted samples.

SRM Recovery of less than 80% has not been used as an indicator to qualify associated data. This is due to the fact that the digestion technique used for the reported samples is different from the one used to determine the SRM certified values.

SRM recovery of less than 80% and concurrent/compliant matrix spike recovery of greater than 75% was observed for the following elements: As, Be, Cd, Cr, Cu, Ni, Pb, Zn. In accordance with qualification criteria outlined in this section, associated data were not qualified.

SRM recovery of less than 50% was commonly observed for chromium and antimony. For antimony data associated with low SRM recovery, the matrix spike recovery data for antimony falls below the guideline of 75% and data have been qualified. When the chromium SRM recoveries are below 50 %, the associated matrix spike recoveries are above the 75% matrix spike guideline and the associated data are not qualified. Instances where the SRM recovery is below 50% are noted in the table below:

AFFECTED SAMPLES	SRM RECOVERY COMMENT
All except 9201595-9201596	Cr, Sb, Be are <50%, at least 1 time
9201595-9201596	Cd, Cr, Cu, Ni, Pb, Sb are <50%

REPLICATES

In general, reported RPD's for replicate samples included in this QA review are compliant and have not resulted in data qualification. Data associated with replicate RPD of greater than 20% have been qualified with the data qualifier "E".

Notable RPD, or those RPD greater than 35%, are listed in the table below. This table includes only those replicate samples where at least one value is significantly greater than the reported MDL.

AFFECTED SAMPLES	COMMENT
8807391, 8807392 and 8807394	high RPD values for many metals
9000395	high RPD values for many metals
9201189-9201206	high RPD reported for Pb

All samples, with the exceptions noted below have been analyzed, reported and qualified with a sample replicate (interchangeable termed duplicate) . The replicate sample, unless otherwise noted, is a part of this data submission.

Samples 9201091-9201095, 9201379, 9201595-9201596 have been analyzed with a replicate that is not part of this data submission. Samples 9000327-9000330 have been reported and qualified with a blank and SRM only. There are no replicate data available for these samples. Subcontracted samples 8905264-8905267 do not have associated replicate data.

MATRIX SPIKES

Matrix spike recoveries have also been discussed in the SRM section of the metals QA review.

Samples 9201091-9201095, 9201379, 9201595-9201596 have been analyzed with a matrix spike sample that is not part of this data submission. Sample numbers 9201091-9201095 had a saltwater sediment as a matrix spike. Sample numbers 9201379, 9201595-9201596 had a freshwater sediment as a matrix spike. Samples 8807391-8807392, 8807394, 8905364-8905267 have been reported without any associated matrix spike.

Data associated with matrix spike recoveries which have not met the 75% to 125% criteria have been qualified with either the "G" or "L" flag, whichever is appropriate. The following sample numbers have metals with >125% spike recovery: 9000395, 9000427-9000436. The following sample numbers have metals with <75% spike recovery: 9000395, 9000327-9000330, 9000427-9000436, 9000437-9000441, 9101185-9101188, 9101228-9101239, 9101268, 9201091-9201095, 9201189-9201206, 9201379, 9201595-9201596.

Additional matrix spike recoveries of note are listed in the Table below:

SAMPLES	COMMENT
9000327-9000330 for Arsenic	0 % matrix spike, 84% SRM, qualified with G
9000437-9000441 for Arsenic	0 % matrix spike, 62% SRM, qualified with G
9000395 for Antimony	0 % matrix spike, 105 % SRM, qualified with G
9000327-9000330 for Selenium	0 % matrix spike, No SRM, qualified with G

Note that available matrix spike percent recoveries have been corrected for the blank spike recoveries. In nearly all cases, blank spike recoveries do not show any significant bias and the matrix spike recoveries, as calculated, should be sufficient for data qualification.

SUBCONTRACTING

Samples 8905264-8905267 were subcontracted for metals analyses.

UNITS AND SIGNIFICANT FIGURES

Metals sample results are reported in units of mg/Kg on a dry weight basis. Data are reported to two significant figures.

Note that quality control samples such as spikes, duplicates and SRM material are reported in units of mg/L. This does not indicate that these quality control samples were performed on a water matrix. Rather, sufficient information was available in the reported format (mg/L) to calculate information such as percent recoveries and qualify the data as needed. Because sufficient information was available to qualify the data, the data has not been calculated on a soil basis. Based on method dilution factors, the reported data may be converted to a soil basis by multiplying by a factor of 50. This calculation assumes a typical sample size of 1 gram wet weight and a final volume of 50 mL.

ORGANICS

COMPLETENESS

All samples listed in Table 1 of this QA review are reported in this data submission.

As an element of completeness assessment , a summary of QC completeness is included below. Table 1 indicates whether appropriate QC was included in the sample analysis for the parameter indicated. This QC would include as a minimum a method blank and matrix spike.

Organics QC Summary

SAMPLE NUMBER	BNA QC	PEST/PCB QC	VOA QC	SAMPLE NUMBER	BNA QC	PEST/PCB QC	VOA QC
8807391	NO	NO	NA	9101233	YES	YES	NA
8807392	NO	NO	NA	9101234	YES	YES	NA
8905264	NO	YES	NA	9101233	YES	YES	NA
8905265	NO	YES	NO	9101234	YES	YES	NA
8905266	NO	YES	NO	9101238	YES	YES	NA
8905267	NO	YES	NO	9101239	YES	YES	NA
9000327	YES	NO	NO	9101268	NO	YES	NO
9000328	YES	NO	NO	9201091	YES	YES	YES
9000329	YES	NO	NO	9201092	YES	YES	YES
9000330	YES	NO	NO	9201093	YES	YES	YES
9000395	YES	NO	YES	9201094	YES	YES	YES
9000427	YES	NO	YES	9201095	YES	YES	YES
9000428	YES	NO	NO	9201189	YES	YES	NA
9000429	YES	NO	NO	9201190	YES	YES	NA
9000430	YES	NO	NO	9201191	YES	YES	NA
9000431	YES	NO	NO	9201192	YES	YES	NA
9000432	YES	NO	YES	9201193	YES	YES	NA
9000433	YES	NO	NO	9201194	YES	YES	NA
9000434	YES	NO	NO	9201195	YES	YES	NA
9000435	YES	NA	NO	9201196	YES	YES	NA
9000436	YES	NA	NO	9201197	YES	YES	NA
9000437	YES	NO	YES	9201198	YES	YES	NA
9000438	YES	NO	NO	9201199	YES	YES	NA
9000439	YES	NO	NO	9201200	YES	YES	NA
9000440	YES	NO	NO	9201201	YES	YES	NA
9000441	YES	NO	NO	9201202	YES	YES	NA
9101185	YES	YES	NO	9201203	YES	YES	NA
9101186	YES	YES	NO	9201205	YES	YES	NA
9101187	YES	YES	NO	9201206	YES	YES	NA
9101228	YES	YES	NA	9201379	YES	YES	NO
9101229	YES	YES	NA	9201595	YES	NA	NO
				9201596	YES	NA	NO

NA this parameter was not analyzed for this sample

YES matrix spike and method blank reported

NO matrix spike and method blank not available

METHOD

Analyses were performed in accordance with EPA methods SW-846, -8270, -8080, -8260 for BNA, PEST/PCB, and VOA, respectively.

TARGET LIST

The BNA target list includes all *Sediment Quality Standards-Chemical Criteria* compounds with the exception of benzo(j)fluoranthene. Note that all three of the benzo-fluoranthene isomers elute in the same region of the chromatogram. The organics section has verified

that the analytical conditions used are sufficient to calculate a total benzo-fluoranthene result using the *b* and *k* isomers reported.

Because there are no *Sediment Quality Standards-Chemical Criteria* for pesticides and volatiles, these target lists have been compared to the PSDDA Chemicals of Concern list.

The reported pesticides target list complies with the PSDDA pesticides of concern. It should be noted that DDT, DDE, and DDD have been reported as p,p' isomers. The reported PCB data includes Aroclors 1016, 1221, 1232, 1242, 1248, 1254, and 1260.

The reported volatile organics target list includes all of the PSDDA volatile compounds of concern.

DETECTION LIMITS

A positive result, MDL, and RDL have been reported for all parameters. Reported detection limits or TOC normalized detection limits are generally at or below Sediment Quality Standards. However, normalized detection limits for the chlorinated benzenes and 2,4 dimethylphenol generally exceed the Sediment Quality Standards(SQS). Detection limits for other compounds, including several PAH compounds, exceed the SQS on a sporadic basis.

MDL and RDL for data previously available in dry weight, converted to wet weight for data base loading and subsequently reported in dry weight basis have been calculated in the same manner as the associated data. This data treatment is also discussed in the units and significant figures section of this organics QA review.

HOLDING CONDITIONS AND TIMES

Sample holding times for all parameters (VOA, PEST/PCB, BNA) reported within this review have been met. For BNA and PEST/PCB samples, 14 days to extract and 28 days to analysis have been used as hold times criteria.

All volatile samples were analyzed within one week of receipt by the organics laboratory. Note that core samples were subject to freezer storage during the period of time from sampling to receipt by the laboratory. This storage condition is not approved for volatiles, primarily due to concern for sample container breakage.

METHOD BLANK

The organics laboratory policy on blank contamination employed for analysis of these samples is to elevate the detection limit by a factor of five above the level of blank contamination observed. No contaminants were detected in any PEST/PCB method blanks. The following BNA compounds were detected in at least one method blank: N-Nitrosodiphenylamine, Di-N-Butyl Phthalate and Bis(2-Ethylhexyl) Phthalate. The only VOA compounds detected in any method blank were acetone and methylene chloride. Where contaminants were detected in method blanks the associated data have been qualified with "B".

STANDARD REFERENCE MATERIAL

Standard reference materials were not analyzed for any parameters reported.

MATRIX SPIKES

Data requiring qualification due to non-compliant matrix spike recovery are summarized in the tables below:

Summary of PEST/PCB Matrix Spike Recoveries Outside Acceptance Limits

SITUATION	COMPOUNDS	SAMPLES AFFECTED
matrix spike recoveries <50%, compounds qualified with G	p,p'-DDT	8905264-267; 9101185-188; 9101228-229, 9101233-234; 9101238-239; 9101268, 9201189-199
matrix spike recoveries <50%, compounds qualified with G	Lindane, Heptachlor, Aldrin, Dieldrin	8905264-267
matrix spike recoveries >150%, compounds qualified with L	Aldrin, Endrin	9201091-095
matrix spike recoveries <10%, compounds qualified with X	Lindane, Heptachlor	9201091-095

Summary of BNA Matrix Spike Recoveries Outside Acceptance Limits

SITUATION	COMPOUNDS	SAMPLES AFFECTED
matrix spike recoveries >150%, compounds qualified with L	2,4-Dinitrotoluene, Pentachlorophenol	9000395, 9000427-436
matrix spike recoveries <50%, compound qualified with G	1,4-Dichlorobenzene	9000327-330; 9000437-441, 9101228-229; 9101233-234, 9101238-239; 9201091-095, 9201379; 9201595-596
matrix spike recoveries <50%, compound qualified with G	1,2,4-Trichlorobenzene	9000437-441; 9201091-095, 9201379; 9201595-596
matrix spike recoveries <50%, compound qualified with G	Pentachlorophenol	9201595-596
matrix spike recoveries <50%, compound qualified with G	2-Chlorophenol, 4-Chloro-3-methylphenol, N-Nitroso-Di-N-propylamine,	9201379
matrix spike recoveries <10%, compounds qualified with X	4-Nitrophenol	9201379

All volatiles matrix spike recoveries are within acceptance limits.

REPLICATES

For all samples which a matrix spike and matrix spike duplicate were analyzed the relative percent deviation (RPD) for spike/non spike compounds and surrogates were reported. No spike or non spike RPD were outside QC limits.

SURROGATES

Surrogate recoveries for all parameters and samples analyzed were within QC limits with the exception of the following:

Summary of Non Compliant Surrogate Recoveries

SITUATION	COMPOUNDS	SAMPLE AFFECTED
BNA Surrogate recoveries , <50% or >150%	D4-1,2-Dichlorobenzene	9101185-186; 9101188; 9201091-095; 9201198; 9201379; 9201596
BNA Surrogate recoveries , <50% or >150%	D5-Nitrobenzene	9000329; 9201379
BNA Surrogate recoveries , <50% or >150%	2-Fluorobiphenyl	9000329
BNA Surrogate recoveries , <50% or >150%	2,4,6-Tribromophenol	9201193; 9201194; 9201195
BNA Surrogate recoveries , <50% or >150%	2,4,6-Tribromophenol	9201197; 9201199; 9201200

note: this table continues on the following page.

Summary of Non Compliant Surrogate Recoveries (continued)

SITUATION	COMPOUNDS	SAMPLE AFFECTED
BNA Surrogate recoveries , <50% or >150%	2,4,6-Tribromophenol	9201202; 9201379
BNA Surrogate recoveries , <50% or >150%	D14-Terphenyl	9201202
PEST/PCB Surrogate , recoveries <50% or >150%	Decachlorobiphenyl	9201196
PEST/PCB Surrogate , recoveries <50% or >150%	Di-butylchlorinate	8905264-267

The above instances do not meet criteria for qualification as detailed in Table 2.

UNITS AND SIGNIFICANT FIGURES

Data have been handled as discussed in the general comments section.

Data for some analyses were only available as hard copy reports in final rounded dry weight concentrations. To derive wet weight concentration and associated parameters (wet weight RDL and MDL) the previously reported dry weight concentrations, MDL's and RDL's were normalized for percent solids and entered as wet weight data onto the lab data base. The following sample data have undergone this process :

PARAMETER	SAMPLES AFFECTED
PEST/PCB	9000395, 9000427, 9000428, 9000429, 9000430, 9000431, 9000432 9000433, 9000434, 9000435, 9000436, 9000437, 9000438, 9000439 9000440, 9000441
BNA	9000395, 9000427, 9000428, 9000429, 9000430, 9000431, 9000432 9000433, 9000434, 9000435, 9000436, 9000437, 9000438, 9000439 9000440, 9000441, 9201595, 9201596
VOA	9201093, 9201379, 9201595, 9201596

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STATION	SAMPLE DEPTH in cm.	SAMPLE DATE	LATITUDE	LONGITUDE	SAMPLE NUMBER	BNA	VOA	PEST/PCB	METAL	PERCENT SOLIDS	TOC	PSD
LTBD19	5	880629	47°37'07"	122°21'33"	8807391	X	X	X	X	X	X	X
LTBD20	5	880629	47°37'08"	122°21'33"	8807392	X	X	X	X	X	X	X
LTBD22	5	880629	47°37'08"	122°21'34"	8807394	X	X	X	X	X	X	X
LTXP06	0-122	890420	47°30'45"	122°18'05"	8905264	X	X	X	X	X	X	X
LTXP06	123-364	890420	47°30'45"	122°18'05"	8905265	X	X	X	X	X	X	X
LTXP07	0-122	890420	47°30'45"	122°18'06"	8905266	X	X	X	X	X	X	X
LTXP07	123-364	890420	47°30'45"	122°18'06"	8905267	X	X	X	X	X	X	X
LTBC20	no date	900403	47°37'06"	122°21'38"	9000327	X	X	X	X	X	X	X
LTBC34	no date	900403	47°37'06"	122°21'37"	9000328	X	X	X	X	X	X	X
LTBC35	no date	900403	47°37'06"	122°21'36"	9000329	X	X	X	X	X	X	X
LTBD23	no date	900403	47°37'03"	122°21'34"	9000330	X	X	X	X	X	X	X
LTBD25	0-15	900426	47°37'07"	122°21'35"	9000395	X	X	X	X	X	X	X
LTBC35	69.2-84.5	900514	47°37'06"	122°21'36"	9000427	X*	X*	X	X	X	X	X
LTBC35	51.4-68.7	900514	47°37'06"	122°21'36"	9000428	X	X	X	X	X	X	X
LTBC35	36.2-51.4	900514	47°37'06"	122°21'36"	9000429	X	X	X	X	X	X	X
LTBC35	21.0-36.2	900514	47°37'06"	122°21'36"	9000430	X	X	X	X	X	X	X
LTBC35	5.72-21.0	900514	47°37'06"	122°21'36"	9000431	X	X	X	X	X	X	X
LTBD24	81.3-96.5	900514	47°37'04"	122°21'35"	9000432	X*	X	X	X	X	X	X
LTBD24	63.5-78.7	900514	47°37'04"	122°21'35"	9000433	X	X	X	X	X	X	X
LTBD24	48.3-63.5	900514	47°37'04"	122°21'35"	9000434	X	X	X	X	X	X	X
LTBD24	33.0-48.3	900514	47°37'04"	122°21'35"	9000435	X	X	X	X	X	X	X
LTBD24	17.8-33.0	900514	47°37'04"	122°21'35"	9000436	X	X	X	X	X	X	X
LTBC34	80.0-86.4	900530	47°37'06"	122°21'37"	9000437	X*	X	X	X	X	X	X
LTBC34	62.2-77.5	900530	47°37'06"	122°21'37"	9000438	X	X	X	X	X	X	X
LTBC34	47.0-62.2	900530	47°37'06"	122°21'37"	9000439	X	X	X	X	X	X	X
LTBC34	31.8-47.0	900530	47°37'06"	122°21'37"	9000440	X	X	X	X	X	X	X
LTBC34	16.5-31.8	900530	47°37'06"	122°21'37"	9000441	X	X	X	X	X	X	X
LTBC20	2	910528	47°37'06"	122°21'38"	9101185	X	X	X	X	X	X	X
LTBC21	2	910530	47°37'05"	122°21'36"	9101186	X	X	X	X	X	X	X
LTBC22	2	910530	47°37'04"	122°21'37"	9101187	X	X	X	X	X	X	X
LTBD23	2	910530	47°37'03"	122°21'34"	9101188	X	X	X	X	X	X	X
LTBC34	77.5-92.5	910530	47°37'06"	122°21'37"	9101228	X	X	X	X	X	X	X

Table 1 page 2 of 2

STATION	SAMPLE DEPTH in cm.	SAMPLE DATE	LATITUDE	LONGITUDE	SAMPLE NUMBER	BNA	VOA	PEST/PCB	METAL	PERCENT SOLIDS	TOC	PSD
LTBC34	62.5-77.5	910530	47° 37' 06"	122° 21' 37"	9101299	X	X	X	X	X	X	X
LTBC35	55-70	910530	47° 37' 06"	122° 21' 36"	9101233	X	X	X	X	X	X	X
LTBC35	37.5-52.5	910530	47° 37' 06"	122° 21' 36"	9101234	X	X	X	X	X	X	X
LTBD24	62.5-67.5	910530	47° 37' 04"	122° 21' 35"	9101238	X	X	X	X	X	X	X
LTBD24	45-50	910530	47° 37' 04"	122° 21' 35"	9101239	X	X	X	X	X	X	X
LTBD25	0-15	910613	47° 37' 07"	122° 21' 35"	9101268	X	X	X	X	X	X	X
LTBC20	2 cm	920526	47° 37' 06"	122° 21' 38"	9201091	X	X	X	X	X	X	X
LTBC21	2 cm	920526	47° 37' 05"	122° 21' 36"	9201092	X	X	X	X	X	X	X
LTBC21	2cm	920526	47° 37' 05"	122° 21' 36"	9201093	X	X	X	X	X	X	X
LTBC22	2 cm	920526	47° 37' 04"	122° 21' 37"	9201094	X	X	X	X	X	X	X
LTBD23	2 cm	920526	47° 37' 03"	122° 21' 34"	9201095	X	X	X	X	X	X	X
LTBC35	0-10	920519	47° 37' 06"	122° 21' 36"	9201189	X	X	X	X	X	X	X
LTBC35	10-25	920519	47° 37' 06"	122° 21' 36"	9201190	X	X	X	X	X	X	X
LTBC35	25-40	920519	47° 37' 06"	122° 21' 36"	9201191	X	X	X	X	X	X	X
LTBC35	40-55	920519	47° 37' 06"	122° 21' 36"	9201192	X	X	X	X	X	X	X
LTBC35	57.5-67.5	920519	47° 37' 06"	122° 21' 36"	9201193	X	X	X	X	X	X	X
LTBC35	25-40	920519	47° 37' 06"	122° 21' 36"	9201194	X	X	X	X	X	X	X
LTBC35	40-55	920519	47° 37' 06"	122° 21' 36"	9201195	X	X	X	X	X	X	X
LTBC35	56-63.5	920519	47° 37' 06"	122° 21' 36"	9201196	X	X	X	X	X	X	X
LTBC34	67.5-79	920519	47° 37' 06"	122° 21' 37"	9201197	X	X	X	X	X	X	X
LTBC34	50-65	920519	47° 37' 06"	122° 21' 37"	9201198	X	X	X	X	X	X	X
LTBC34	35-50	920519	47° 37' 06"	122° 21' 37"	9201199	X	X	X	X	X	X	X
LTBC34	20-35	920519	47° 37' 06"	122° 21' 37"	9201200	X	X	X	X	X	X	X
LTBC34	5-20	920519	47° 37' 06"	122° 21' 37"	9201201	X	X	X	X	X	X	X
LTBC34	62.5-69	920519	47° 37' 06"	122° 21' 37"	9201202	X	X	X	X	X	X	X
LTBC34	45-60	920519	47° 37' 06"	122° 21' 37"	9201203	X	X	X	X	X	X	X
LTBD24	65-73.5	920519	47° 37' 04"	122° 21' 35"	9201205	X	X	X	X	X	X	X
LTBD24	49-64	920519	47° 37' 04"	122° 21' 35"	9201206	X	X	X	X	X	X	X
LTBD25	0-15	920701	47° 37' 07"	122° 21' 35"	9201379	X	X	X	X	X	X	X
LTBC21	2	920820	47° 37' 05"	122° 21' 36"	9201595	X	X	X	X	X	X	X
LTBC20	2	920820	47° 37' 06"	122° 21' 38"	9201596	X	X	X	X	X	X	X

* These volatile samples are composites of five sediment core depths

Table 2. Summary of Data Qualifiers Used

Condition to Quality	SEDAQUAL Qualifier	Organics QC Limits	Metals QC Limits	Conventional QC Limits	METRO Equivalent Qualifier
very low matrix spike recovery	X	< 10 %	< 10 %	NA	X
low matrix spike recovery	G	< 50%	< 75%	NA	G
high matrix spike recovery	L	> 150%	> 125%	NA	L
low SRM recovery	G	within 95% window	< 80%	< 80%*	G
high SRM recovery	L	within 95% window	> 120%	> 120%*	L
high duplicate RPD	E	> 100 %	>20%	> 20 %	E, estimated
high triplicate RSD	E	> 100%	NA	> 20 %	E, estimated
less than the reporting detection limit	T	NA	NA	NA	< RDL
less than the method detection limit	U	NA	NA	NA	< MDL
contamination reported in blank	B	> MDL	> MDL	> MDL	B
very biased data, based on surrogate recoveries	X	all fraction surrogates are <10%	NA	NA	X
biased data, based on surrogate recoveries	E	all fraction surrogates are < 50% or >150%	NA	NA	E, estimated
estimate based on presumptive evidence rejected, unusable for all purposes	N	NA	NA	NA	J# used to indicate the presence of TIC's R
	R	NA	NA	NA	

* Note that PSDDA guidance uses a 95% confidence window for this parameter/qualification.

LABORATORY METHODS

Core sampling and analytical protocols and comparisons of the chemistry within the cap to the under-cap sediments and the Washington State sediment standards are described below.

ORGANICS

For analysis of semivolatile organics, or base/neutral/acid organics (BNAs), between 20 grams (1990) and 30 grams (1991 and 1992) of sediment were mixed with anhydrous sodium sulfate and extracted with 1:1 methylene chloride/acetone using an ultrasonic probe. The liquid extract was analyzed by Gas Chromatography/Mass Spectrometry (GC/MS) techniques utilizing Finnigan 4500 instruments according to EPA Method 8270.

Samples for pesticides and polychlorinated biphenyl's (PCBs) were extracted in a similar manner. Florisil cartridge and alumina column cleanups were performed to remove interferences by polar compounds and BNA surrogates. The extract was analyzed on a Hewlett Packard 5890 Gas Chromatograph with dual Electron Capture Detectors (GC/ECD) following EPA Method 8080.

Volatile organics were tested for in the 1990 cap and the pre-dredge analyses. In each case, a 5 gram sample was processed by GC/MS EPA Method 8240 on a Finnigan 4500 with a Tekmar LSC-2000/ALS-4210 purge and trap. The 1990 cap samples were a composite of one gram from each of the five sections of each core. The 1989 pre-dredge samples were composites formed from depth-specific combinations of four cores, as described later in this section.

The quality control (QC) procedures for trace organics analysis consisted of method blanks, surrogate compound(s) spiked in each sample, matrix spike samples (MS) and matrix spike duplicates (MSD).

Method blanks provided information related to analyte contamination that may have occurred during sample preparation and analysis, from sources such as reagents, dilutions, and glassware. The blanks were prepared exactly the same as the samples and were analyzed with the samples. At least one method blank was run per sample set.

Surrogate spikes provided information related to the analysis of the quality of the extraction and possible matrix interferences on a per sample basis.

Surrogate spikes are compounds that are not generally found in environmental samples, yet behave similarly to the analytes without interfering with the analysis. These were added to every sample prior to extraction. The following compounds were used for surrogates:

<u>Semivolatiles Surrogates</u>	<u>Pesticide Surrogates</u>
Nitrobenzene-d5	Tetrachloro-m-xylene
2-Fluorobiphenyl	Decachlorobiphenyl
Terphenyl-d14	
Phenol-d5	
2-Fluorophenol	
2,4,6-Tribromophenol	
2-Chlorophenol-d4	
1,2-Dichlorobenzene-d4	

The matrix spike (MS) and matrix spike duplicate (MSD) samples provided information on the effects of sample preparation procedures on the sample matrix and information relating to the precision of the analysis method. A minimum of 1 MS and 1 MSD were run per every 20 samples. Matrix spike samples and corresponding duplicates consisted of two identical samples spiked with the appropriate analytes prior to extraction. The appropriate analytes were a representative group of target compounds and are listed below. By running the matrix spike in duplicate, variability was monitored and a relative percent difference (RPD) was calculated in addition to the percent recovery of the spike.

Semivolatile MS Compounds Pesticide MS Compounds

Phenol	gamma-BHC
2-Chlorophenol	1,4-Dichlorobenzene
1,4-Dichlorobenzene	Aldrin

<u>Semivolatile MS Compounds</u>	<u>Pesticide MS Compounds</u>
N-Nitroso-d-n-propylamine	Dieldrin
1,2,4-Trichlorobenzene	Endrin
4-Chloro-3-methylphenol	4,4'-DDT
Acenaphthene	
4-Nitrophenol	
2,4-Dinitrotoluene	
Pentachlorophenol	
Pyrene	

METALS

The methods used to analyze some metals changed between 1990 and 1991. In 1990, Graphite Furnace Atomic Absorption Spectroscopy (GFAA) techniques were used for antimony, arsenic, selenium and thallium. Mercury was analyzed by Cold Vapor Atomic Absorption Spectroscopy (CVAA) procedures and all other metals were analyzed by Inductively Coupled Argon Plasma Spectroscopy (ICP). In 1991 and 1992, mercury was still processed by cold vapor procedures but all other metals were processed by ICP instrumentation and techniques. Although the GFAA methods yield lower detection limits than ICP, the GFAA is more prone to interferences and samples must be analyzed one metal at a time. The ICP provides the advantage of measuring all the metals simultaneously. The metals analyzed by GFAA in 1990 were not of great concern and the ICP detection limits were judged to be sufficient.

In the cold vapor test, specific for total mercury, the samples were analyzed according to the method specified in EPA SW846, Test Methods for Evaluating Solid Waste, Method 7471. In this method, samples were digested at 95°C in a hot water bath with aqua regia and an excess of potassium permanganate. Samples were then analyzed by CVAA. The mercury was reduced to the elemental state and aerated from the solution as mercury vapor. The vapor passes

through a cell positioned in the light path of an atomic absorption spectrophotometer and absorbance was measured as a function of mercury concentration.

Four metals were analyzed by GFAA in 1990. These samples were digested according to EPA SW846, Method 3050 and analyzed by EPA Method 7041 for antimony, 7060 for arsenic, 7740 for selenium and 7841 for thallium.

The remainder of the priority pollutant metals were digested for total metals using the strong acid digestion specified in EPA SW846, Method 3050. Samples were digested on a hot plate with nitric acid and hydrogen peroxide. Samples were analyzed by EPA Method 200.7. This instrument analyzes each sample for all the metals simultaneously with reasonably low detection limits and a large linear dynamic range.

Quality control samples used with metals analyses included preparation blanks, duplicate samples, spiked samples and standard reference materials. Metals preparation blanks were used in the same way as organics blank samples.

Duplicate samples helped determine the precision of the data. At least one duplicate sample was analyzed for every twenty sediment samples. The duplicate may not have been from the Denny Way sample set since these were run with other sediment samples in batches. Relative percent difference was calculated. Any anomalies were documented.

Matrix spike samples for metals were run in a similar manner to those for organics. In addition, a preparation known as a check spike was run concurrently to check spiking accuracy. The amount of spike added to the sample was appropriate to the expected sample concentration.

The instrument spike sample provided information on the effect of the sample matrix on instrumental analysis as compared with the effect on sample preparation. Instrument spikes were performed routinely during graphite furnace analysis and as needed during ICP analysis.

Standard Reference Materials provided information on the precision and bias of the method. The particular reference material which most closely matches the sample matrix was chosen. A standard reference material was analyzed with each batch of samples of similar matrix.

OTHER ANALYSES

A private contractor performed the total organic carbon content (TOC) analysis. Metro's Environmental Laboratory confirmed that a modified version of EPA Method 5310A-D was used. The sediment samples were not dried prior to oxidation. Carbonates and bicarbonates were removed from the samples with acid. The sample was combusted and the resultant CO₂ was measured with an infrared spectrometer. The organic carbon content was calculated based on the amount of CO₂ released during combustion.

Wet sieving and pipette analysis were performed according to the Puget Sound Environmental Protocols (PSEP) by a private contractor, except the samples were frozen prior to analysis. Dry sieving was not necessary because gravel was not present.

Analysis for total solids was performed by Metro according to PSEP protocols.

APPENDIX F

CORE SAMPLE CHEMISTRY DATA

1990 Core Samples

Section/Locator:	O Below Cap				LTBC35				O1				LTBC35			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:					May 14, 90				May 14, 90							
Lab ID:					9000427				9000428							
Matrix:					SALTWTRSED				SALTWTRSED							
% Solids:					60				83							
Parameters Dry Weight																
ORGANICS µg/Kg																
1,2,4-Trichlorobenzene			<MDL	40	83				<MDL		20	30				
1,2-Dichlorobenzene			<MDL	40	83				<MDL		20	30				
1,2-Diphenylhydrazine			<MDL	200	330				<MDL		60	120				
1,3-Dichlorobenzene			<MDL	40	83				<MDL		20	30				
1,4-Dichlorobenzene			<MDL	40	83				<MDL		20	30				
2,4,5-Trichlorophenol			<MDL	300	670				<MDL		100	240				
2,4,6-Trichlorophenol			<MDL	300	670				<MDL		100	240				
2,4-Dichlorophenol			<MDL	80	170				<MDL		30	60				
2,4-Dimethylphenol			<MDL	80	170				<MDL		30	60				
2,4-Dinitrophenol			<MDL	200	330				<MDL		60	120				
2,4-Dinitrotoluene			<MDL,L	30	67				<MDL,L		10	24				
2,6-Dinitrotoluene			<MDL	30	67				<MDL		10	24				
2-Chloronaphthalene			<MDL	40	83				<MDL		20	30				
2-Chlorophenol			<MDL	200	330				<MDL		60	120				
2-Methylnaphthalene			<MDL	100	250				<MDL		50	90				
2-Methylphenol			<MDL	80	170				<MDL		30	60				
2-Nitroaniline			<MDL	300	500				<MDL		90	180				
2-Nitrophenol			<MDL	80	170				<MDL		30	60				
3,3'-Dichlorobenzidine			<MDL	80	170				<MDL		30	60				
3-Nitroaniline			<MDL	300	500				<MDL		90	180				
4,6-Dinitro-O-Cresol			<MDL	200	330				<MDL		60	120				
4-Bromophenyl Phenyl Ether			<MDL	30	50				<MDL		9	18				
4-Chloro-3-Methylphenol			<MDL	200	330				<MDL		60	120				
4-Chloroaniline			<MDL	200	330				<MDL		60	120				
4-Chlorophenyl Phenyl Ether			<MDL	40	83				<MDL		20	30				
4-Methylphenol			<MDL	80	170				<MDL		30	60				
4-Nitroaniline			<MDL	300	500				<MDL		90	180				
4-Nitrophenol			<MDL	200	330				<MDL		60	120				
Acenaphthene	150			30	67				<MDL		10	24				
Acenaphthylene	140			40	83				<MDL		20	30				
Aniline			<MDL	200	330				<MDL		60	120				
Anthracene	1200			40	83				<MDL		20	30				
Benzidine			<MDL	2000	4000				<MDL		700	1400				
Benzo(a)anthracene	2800			40	83				<MDL		20	30				
Benzo(a)pyrene	2700			80	170				<MDL		30	60				
Benzo(b)fluoranthene	3500			100	250				<MDL		50	90				
Benzo(g,h,i)perylene	530			80	170				<MDL		30	60				
Benzo(k)fluoranthene	3400			100	250				<MDL		50	90				
Benzoic Acid	1100			300	500				<MDL		90	180				
Benzyl Alcohol			<MDL	80	170				<MDL		30	60				
Benzyl Butyl Phthalate	850			40	83				<MDL		20	30				
Bis(2-Chloroethoxy)Methane			<MDL	80	170				<MDL		30	60				
Bis(2-Chloroethyl)Ether			<MDL	40	83				<MDL		20	30				
Bis(2-Chloroisopropyl)Ether			<MDL	200	330				<MDL		60	120				
Bis(2-Ethylhexyl)Phthalate	11000			40	83				<MDL		20	30				
Chrysene	3800			40	83				<MDL		20	30				
Di-N-Butyl Phthalate			<MDL	80	170				<MDL		30	60				
Di-N-Octyl Phthalate			<MDL	40	83				<MDL		200	310				
Dibenzo(a,h)anthracene			<MDL	100	250				<MDL		50	90				
Dibenzofuran			<MDL	80	170				<MDL		30	60				
Diethyl Phthalate			<MDL	80	170				<MDL		30	60				
Dimethyl Phthalate			<MDL	30	50				<MDL		9	18				
Fluoranthene	5200			50	100				<MDL		20	36				
Fluorene	230			40	83				<MDL		20	30				
Hexachlorobenzene			<MDL	70	140				<MDL		20	30				

1990 Core Stations (continued)

Section/Locator:	O Below Cap			LTBC35			O1			LTBC35					
	Sampled:	May 14, 90 9000427			Matrix:	SALTWTRSED 60			Sampled:	May 14, 90 9000428					
Lab ID:				% Solids:				Lab ID:				% Solids:			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL			
Hexachlorobutadiene	<MDL	80	170		<MDL	30	60		<MDL	30	60				
Hexachlorocyclopentadiene	<MDL	80	170		<MDL	30	60		<MDL	30	60				
Hexachloroethane	<MDL	80	170		<MDL	30	60		<MDL	30	60				
Indeno(1,2,3-Cd)Pyrene	700		80	170	<MDL	30	60		<MDL	30	60				
Isophorone	<MDL	80	170		<MDL	30	60		<MDL	30	60				
N-Nitrosodi-N-Propylamine	<MDL	80	170		<MDL	30	60		<MDL	90	180				
N-Nitrosodimethylamine	<MDL	300	500		<MDL	30	60		<MDL	30	60				
N-Nitrosodiphenylamine	<MDL	80	170		<MDL	50	90		<MDL	50	90				
Naphthalene	<MDL	100	250		<MDL	20	30		<MDL	20	30				
Nitrobenzene	<MDL	80	170		<MDL	30	60		<MDL	30	60				
Pentachlorophenol	<MDL,L	80	170		<MDL,L	30	60		<MDL,L	30	60				
Phenanthrene	1800		40	83	<MDL	20	30		<MDL	90	180				
Phenol	<MDL	300	500		<MDL	20	30		<MDL	5	10				
Pyrene	5800		40	83	<MDL	5	10		<MDL	5	10				
4,4'-DDD	<MDL	7	14		<MDL	50	100		<MDL	50	100				
4,4'-DDE	<MDL	7	14		<MDL	50	100		<MDL	50	100				
4,4'-DDT	<MDL	7	14		<MDL	50	100		<MDL	50	100				
Aldrin	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Alpha-BHC	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Aroclor 1016	<MDL	7	14		<MDL	50	100		<MDL	50	100				
Aroclor 1221	<MDL	7	14		<MDL	50	100		<MDL	50	100				
Aroclor 1232	<MDL	7	14		<MDL	50	100		<MDL	50	100				
Aroclor 1242	<MDL	7	14		<MDL	50	100		<MDL	50	100				
Aroclor 1248	<MDL	7	14		<MDL	50	100		<MDL	50	100				
Aroclor 1254	1300		7	14	<MDL	50	100		<MDL	50	100				
Aroclor 1260	<MDL	7	14		<MDL	50	100		<MDL	5	10				
Beta-BHC	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Chlordane	<MDL	40	68		<MDL	30	51		<MDL	30	51				
Delta-BHC	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Dieldrin	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Endosulfan I	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Endosulfan II	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Endosulfan Sulfate	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Endrin	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Endrin Aldehyde	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Gamma-BHC (Lindane)	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Heptachlor	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Heptachlor Epoxide	<MDL	7	14		<MDL	5	10		<MDL	5	10				
Methoxychlor	<MDL	40	68		<MDL	30	51		<MDL	30	51				
Toxaphene	<MDL	7	14		<MDL	50	100		<MDL	50	100				
1,1,1-Trichloroethane	<MDL	8	17		<MDL	8	17		<MDL	8	17				
1,1,2,2-Tetrachloroethane	<MDL	8	17		<MDL	8	17		<MDL	8	17				
1,1,2-Trichloroethane	<MDL	8	17		<MDL	8	17		<MDL	8	17				
1,1,2-Trichloroethylene	<MDL	8	17		<MDL	8	17		<MDL	8	17				
1,1-Dichloroethane	<MDL	8	17		<MDL	8	17		<MDL	8	17				
1,1-Dichloroethylene	<MDL	8	17		<MDL	8	17		<MDL	8	17				
1,2-Dichloroethane	<MDL	8	17		<MDL	8	17		<MDL	8	17				
1,2-Dichloropropane	<MDL	8	17		<MDL	8	17		<MDL	8	17				
2-Butanone (MEK)	150		50	83	<MDL	8	17		<MDL	8	17				
2-Chloroethylvinyl ether	<MDL	50	83		<MDL	8	17		<MDL	8	17				
2-Hexanone	<MDL	50	83		<MDL	50	83		<MDL	50	83				
4-Methyl-2-Pentanone (MIBK)	<MDL	50	83		<MDL	50	83		<MDL	50	83				
Acetone	420		50	83	<MDL	50	83		<MDL	50	83				
Acrolein	<MDL	50	83		<MDL	50	83		<MDL	50	83				
Acrylonitrile	<MDL	50	83		<MDL	50	83		<MDL	50	83				
Benzene	<MDL	8	17		<MDL	8	17		<MDL	8	17				

1990 Core Stations (continued)

Section/Locator:	O Below Cap				LTBC35				O1				LTBC35			
	Sampled:	May 14, 90 9000427 SALTWTRSED 60			Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Sampled:	May 14, 90 9000428 SALTWTRSED 83		
Parameters Dry Weight																
Bromodichloromethane		<MDL	8	17												
Bromoform		<MDL	8	17												
Bromomethane		<MDL	8	17												
Carbon Disulfide		<MDL	8	17												
Carbon Tetrachloride		<MDL	8	17												
Chlorobenzene		<MDL	8	17												
Chlorodibromomethane		<MDL	8	17												
Chloroethane		<MDL	8	17												
Chloroform		<MDL	8	17												
Chloromethane		<MDL	8	17												
cis-1,3-Dichloropropene		<MDL	8	17												
Ethylbenzene		<MDL	8	17												
Methylene Chloride		<MDL	50	83												
Styrene		<MDL	8	17												
Tetrachloroethylene		<MDL	8	17												
Toluene		<MDL	8	17												
Total Xylenes		<MDL	8	17												
Trans-1,2-Dichloroethylene		<MDL	8	17												
Trans-1,3-Dichloropropene		<MDL	8	17												
Trichlorofluoromethane		<MDL	8	17												
Vinyl Acetate		<MDL	50	83												
Vinyl Chloride		<MDL	8	17												
METALS mg/Kg																
	M.Code=CV															
Mercury		1.8							0.036							
	M.Code=GF															
Antimony		6.7	E						<MDL,E	0.8						
Thallium		<MDL,E,G		2					<MDL E,G	1						
	M.Code=HE															
Arsenic		13	G						4.8	G						
Selenium		1.3							<MDL		1					
	M.Code=PE															
Aluminum		12000	B						8000	B						
Barium		97	B,E						34	B,E						
Beryllium		0.15							0.12							
Cadmium		4.8	L						<MDL,L	0.2						
Chromium		55							10							
Copper		160							12							
Iron		18000							18000							
Lead		480							11							
Manganese																
Nickel		42							12							
Silver		17							<MDL	0.4						
Zinc		320	B						48	B						
CONVENTIONALS																
Particle Size in % phi																
p-2.00																
p-1.00		7.5	E	0.01					2	E	0.01					
p+0.00		2.4	E	0.01					11	E	0.01					
p+1.00		4.2	E	0.01					39	E	0.01					
p+2.00		8.5	E	0.01					41	E	0.01					
p+3.00		18	E	0.01					5.2	E	0.01					
p+4.00		19	E	0.01					0.27	E	0.01					
p+5.00		19	E	0.01					0.45	E	0.01					
p+6.00		11	E	0.01					0.16	E	0.01					
p+7.00		3	E	0.01					0.16	E	0.01					

1990 Core Stations (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids:	O Below Cap LTBC35				O1 LTBC35			
	May 14, 90 9000427 SALTWTRSED 60				May 14, 90 9000428 SALTWTRSED 83			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
p+8.00	2.1	E	0.01		0.2	E	0.01	
p+9.00	1	E	0.01		0.12	E	0.01	
p+10.0	1.8	E	0.01		<MDL,E		0.01	
p+11.0	0.02	E	0.01		0.25	E	0.01	
p+12.0	1.9	E	0.01		0.38	E	0.01	
Total Organic Carbon	28000	E	800		1000	E	600	
FIELD DATA								
Storm Or Non-Storm								
Tidal Condition								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sediment Sampling Range Bottom	84.5				66.7			
Sediment Sampling Range Top	69.2				51.4			

1990 Core Stations (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids: Parameters Dry Weight ORGANICS µg/Kg	O2 LTBC35				O3 LTBC35			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
1,2,4-Trichlorobenzene	<MDL		20	30	<MDL		20	30
1,2-Dichlorobenzene	<MDL		20	30	<MDL		20	30
1,2-Diphenylhydrazine	<MDL		60	120	<MDL		60	120
1,3-Dichlorobenzene	<MDL		20	30	<MDL		20	30
1,4-Dichlorobenzene	<MDL		20	30	<MDL		20	30
2,4,5-Trichlorophenol	<MDL		100	240	<MDL		100	240
2,4,6-Trichlorophenol	<MDL		100	240	<MDL		100	240
2,4-Dichlorophenol	<MDL		30	60	<MDL		30	61
2,4-Dimethylphenol	<MDL		30	60	<MDL		30	61
2,4-Dinitrophenol	<MDL		60	120	<MDL		60	120
2,4-Dinitrotoluene	<MDL,L		10	24	<MDL,L		10	24
2,6-Dinitrotoluene	<MDL		10	24	<MDL		10	24
2-Chloronaphthalene	<MDL		20	30	<MDL		20	30
2-Chlorophenol	<MDL		60	120	<MDL		60	120
2-Methylnaphthalene	<MDL		50	90	<MDL		50	91
2-Methylphenol	<MDL		30	60	<MDL		30	61
2-Nitroaniline	<MDL		90	180	<MDL		90	180
2-Nitrophenol	<MDL		30	60	<MDL		30	61
3,3'-Dichlorobenzidine	<MDL		30	60	<MDL		30	61
3-Nitroaniline	<MDL		90	180	<MDL		90	180
4,6-Dinitro-O-Cresol	<MDL		60	120	<MDL		60	120
4-Bromophenyl Phenyl Ether	<MDL		9	18	<MDL		9	18
4-Chloro-3-Methylphenol	<MDL		60	120	<MDL		60	120
4-Chloroaniline	<MDL		60	120	<MDL		60	120
4-Chlorophenyl Phenyl Ether	<MDL		20	30	<MDL		20	30
4-Methylphenol	<MDL		30	60	<MDL		30	61
4-Nitroaniline	<MDL		90	180	<MDL		90	180
4-Nitrophenol	<MDL		60	120	<MDL		60	120
Acenaphthene	<MDL		10	24	<MDL		10	24
Acenaphthylene	<MDL		20	30	<MDL		20	30
Aniline	<MDL		60	120	<MDL		60	120
Anthracene	<MDL		20	30	<MDL		20	30
Benzidine	<MDL		700	1400	<MDL		700	1500
Benzo(a)anthracene	<MDL		20	30	<MDL		20	30
Benzo(a)pyrene	<MDL		30	60	<MDL		30	61
Benzo(b)fluoranthene	<MDL		50	90	<MDL		50	91
Benzo(g,h,i)perylene	<MDL		30	60	<MDL		30	61
Benzo(k)fluoranthene	<MDL		50	90	<MDL		50	91
Benzoic Acid	<MDL		90	180	<MDL		90	180
Benzyl Alcohol	<MDL		30	60	<MDL		30	61
Benzyl Butyl Phthalate	<MDL		20	30	<MDL		20	30
Bis(2-Chloroethoxy)Methane	<MDL		30	60	<MDL		30	61
Bis(2-Chloroethyl)Ether	<MDL		20	30	<MDL		20	30
Bis(2-Chloroisopropyl)Ether	<MDL		60	120	<MDL		60	120
Bis(2-Ethylhexyl)Phthalate	<MDL		20	30	<MDL		20	30
Chrysene	<MDL		20	30	<MDL		20	30
Di-N-Butyl Phthalate	<MDL		30	60	<MDL		30	61
Di-N-Octyl Phthalate	<MDL		200	310	<MDL		20	30
Dibenzo(a,h)anthracene	<MDL		50	90	<MDL		30	61
Dibenzofuran	<MDL		30	60	<MDL		30	61
Diethyl Phthalate	<MDL		30	60	<MDL		30	61
Dimethyl Phthalate	<MDL		9	18	<MDL		9	18
Fluoranthene	<MDL		20	36	<MDL		20	37
Fluorene	<MDL		20	30	<MDL		20	30
Hexachlorobenzene	<MDL		20	30	<MDL		20	30

1990 Core Stations (continued)

Section/Locator:	O2			LTBC35			O3			LTBC35		
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:					May 14, 90				May 14, 90			
Lab ID:					9000429				9000430			
Matrix:					SALTWTRSED				SALTWTRSED			
% Solids:					83				82			
Parameters Dry Weight												
Hexachlorobutadiene	<MDL		30	60		<MDL				30	61	
Hexachlorocyclopentadiene	<MDL		30	60		<MDL				30	61	
Hexachloroethane	<MDL		30	60		<MDL				30	61	
Indeno(1,2,3-Cd)Pyrene	<MDL		30	60		<MDL				3000	6800	
Isophorone	<MDL		30	60		<MDL				30	61	
N-Nitrosodi-N-Propylamine	<MDL		30	60		<MDL				30	61	
N-Nitrosodimethylamine	<MDL		90	180		<MDL				90	180	
N-Nitrosodiphenylamine	<MDL		30	60		<MDL				30	61	
Naphthalene	<MDL		50	90		<MDL				50	91	
Nitrobenzene	<MDL		30	60		<MDL				30	61	
Pentachlorophenol	<MDL,L		30	60		<MDL,L				30	61	
Phenanthere	<MDL		20	30		<MDL				20	30	
Phenol	<MDL		90	180		<MDL				90	180	
Pyrene	<MDL		20	30		<MDL				20	30	
4,4'-DDD	<MDL		5	10		<MDL				5	10	
4,4'-DDE	<MDL		5	10		<MDL				5	10	
4,4'-DDT	<MDL		5	10		<MDL				5	10	
Aldrin	<MDL		5	10		<MDL				5	10	
Alpha-BHC	<MDL		5	10		<MDL				5	10	
Aroclor 1016	<MDL		50	100		<MDL				50	100	
Aroclor 1221	<MDL		50	100		<MDL				50	100	
Aroclor 1232	<MDL		50	100		<MDL				50	100	
Aroclor 1242	<MDL		50	100		<MDL				50	100	
Aroclor 1248	<MDL		50	100		<MDL				50	100	
Aroclor 1254	<MDL		50	100		<MDL				50	100	
Aroclor 1260	<MDL		50	100		<MDL				50	100	
Beta-BHC	<MDL		5	10		<MDL				5	10	
Chlordane	<MDL		30	51		<MDL				30	51	
Delta-BHC	<MDL		5	10		<MDL				5	10	
Dieldrin	<MDL		5	10		<MDL				5	10	
Endosulfan I	<MDL		5	10		<MDL				5	10	
Endosulfan II	<MDL		5	10		<MDL				5	10	
Endosulfan Sulfate	<MDL		5	10		<MDL				5	10	
Endrin	<MDL		5	10		<MDL				5	10	
Endrin Aldehyde	<MDL		5	10		<MDL				5	10	
Gamma-BHC (Lindane)	<MDL		5	10		<MDL				5	10	
Heptachlor	<MDL		5	10		<MDL				5	10	
Heptachlor Epoxide	<MDL		5	10		<MDL				5	10	
Methoxychlor	<MDL		30	51		<MDL				30	51	
Toxaphene	<MDL		50	100		<MDL				50	100	
1,1,1-Trichloroethane												
1,1,2,2-Tetrachloroethane												
1,1,2-Trichloroethane												
1,1,2-Trichloroethylene												
1,1-Dichloroethane												
1,1-Dichloroethylene												
1,2-Dichloroethane												
1,2-Dichloropropane												
2-Butanone (MEK)												
2-Chloroethylvinyl ether												
2-Hexanone												
4-Methyl-2-Pentanone (MIBK)												
Acetone												
Acrolein												
Acrylonitrile												
Benzene												

1990 Core Stations (continued)

Section/Locator:	O2				O3				
	LTBC35		LTBC35		LTBC35		LTBC35		
Sampled:	May 14, 90 9000429 SALTWTRSED 83				Sampled:	May 14, 90 9000430 SALTWTRSED 82			
Lab ID:	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	
Matrix:									
% Solids:									
Parameters Dry Weight									
Bromodichloromethane									
Bromoform									
Bromomethane									
Carbon Disulfide									
Carbon Tetrachloride									
Chlorobenzene									
Chlorodibromomethane									
Chloroethane									
Chloroform									
Chloromethane									
cis-1,3-Dichloropropene									
Ethylbenzene									
Methylene Chloride									
Styrene									
Tetrachloroethylene									
Toluene									
Total Xylenes									
Trans-1,2-Dichloroethylene									
Trans-1,3-Dichloropropene									
Trichlorofluoromethane									
Vinyl Acetate									
Vinyl Chloride									
METALS mg/Kg									
M.Code=CV									
Mercury	0.024				0.037				
M.Code=GF									
Antimony	<MDL,E	1			<MDL,E	1			
Thallium	<MDL,E,G	1			<MDL,E,G	0.9			
M.Code=HE									
Arsenic	4.8	G			4.9	G			
Selenium	<MDL	1			<MDL	0.9			
M.Code=PE									
Aluminum	8200	B			8400	B			
Barium	42	B,E			28	B,E			
Beryllium	0.12				0.12				
Cadmium	0.24	L			0.24	L			
Chromium	14				12				
Copper	10				10				
Iron	18000				18000				
Lead	4.8				7.3				
Manganese									
Nickel	14				12				
Silver	<MDL	0.4			<MDL	0.4			
Zinc	47	B			55	B			
CONVENTIONALS									
Particle Size in % phi									
p-2.00									
p-1.00	3.4	E	0.01		1.2	E	0.01		
p+0.00	18	E	0.01		7.9	E	0.01		
p+1.00	67	E	0.01		39	E	0.01		
p+2.00	5.8	E	0.01		45	E	0.01		
p+3.00	4.5	E	0.01		5.2	E	0.01		
p+4.00	0.24	E	0.01		0.48	E	0.01		
p+5.00	0.16	E	0.01		0.26	E	0.01		
p+6.00	0.03	E	0.01		0.2	E	0.01		
p+7.00	<MDL,E	0.01			0.26	E	0.01		

1990 Core Stations (continued)

Section/Locator:	O2 LTBC35				O3 LTBC35			
	May 14, 90 9000429 SALTWTRSED 83				May 14, 90 9000430 SALTWTRSED 82			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
p+8.00	0.1	E	0.01		<MDL,E		0.01	
p+9.00	0.02	E	0.01		<MDL,E		0.01	
p+10.0	0.07	E	0.01		0.12	E	0.01	
p+11.0	0.04	E	0.01		0.14	E	0.01	
p+12.0	0.03	E	0.01		0.64	E	0.01	
Total Organic Carbon	800	E	600		6300	E	600	
FIELD DATA								
Storm Or Non-Storm								
Tidal Condition								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sediment Sampling Range Bottom	51.4				36.2			
Sediment Sampling Range Top	36.2				21			

1990 Core Stations (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids: Parameters Dry Weight ORGANICS µg/Kg	O4 LTBC35				N Below Cap LTBD24			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
1,2,4-Trichlorobenzene	<MDL		20	31	<MDL		20	36
1,2-Dichlorobenzene	<MDL		20	31	<MDL		20	36
1,2-Diphenylhydrazine	<MDL		60	130	<MDL		70	140
1,3-Dichlorobenzene	<MDL		20	31	<MDL		20	36
1,4-Dichlorobenzene	<MDL		20	31	<MDL		20	36
2,4,5-Trichlorophenol	<MDL		100	250	<MDL		100	290
2,4,6-Trichlorophenol	<MDL		100	250	<MDL		100	290
2,4-Dichlorophenol	<MDL		30	63	<MDL		40	72
2,4-Dimethylphenol	<MDL		30	63	<MDL		40	72
2,4-Dinitrophenol	<MDL		60	130	<MDL		70	140
2,4-Dinitrotoluene	<MDL,L		10	25	<MDL,L		10	29
2,6-Dinitrotoluene	<MDL		10	25	<MDL		10	29
2-Chloronaphthalene	<MDL		20	31	<MDL		20	36
2-Chlorophenol	<MDL		60	130	<MDL		70	140
2-Methylnaphthalene	<MDL		50	94	<MDL		60	110
2-Methylphenol	<MDL		30	63	<MDL		40	72
2-Nitroaniline	<MDL		90	190	<MDL		100	220
2-Nitrophenol	<MDL		30	63	<MDL		40	72
3,3'-Dichlorobenzidine	<MDL		30	63	<MDL		40	72
3-Nitroaniline	<MDL		90	190	<MDL		100	220
4,6-Dinitro-O-Cresol	<MDL		60	130	<MDL		70	140
4-Bromophenyl Phenyl Ether	<MDL		9	19	<MDL		10	22
4-Chloro-3-Methylphenol	<MDL		60	130	<MDL		70	140
4-Chloroaniline	<MDL		60	130	<MDL		70	140
4-Chlorophenyl Phenyl Ether	<MDL		20	31	<MDL		20	36
4-Methylphenol	<MDL		30	63	<MDL		40	72
4-Nitroaniline	<MDL		90	190	<MDL		100	220
4-Nitrophenol	<MDL		60	130	<MDL		70	140
Acenaphthene	<MDL		10	25	110		10	29
Acenaphthylene	<MDL		20	31	55		20	36
Aniline	<MDL		60	130	<MDL		70	140
Anthracene	<MDL		20	31	300		20	36
Benzidine	<MDL		800	1500	<MDL		900	1700
Benzo(a)anthracene	<MDL		20	31	590		20	36
Benzo(a)pyrene	<MDL		30	63	840		40	72
Benzo(b)fluoranthene	<MDL		50	94	1200		60	110
Benzo(g,h,i)perylene	<MDL		30	63	160		40	72
Benzo(k)fluoranthene	<MDL		50	94	1000		60	110
Benzoic Acid	<MDL		90	190	350		100	220
Benzyl Alcohol	<MDL		30	63	<MDL		40	72
Benzyl Butyl Phthalate	<MDL		20	31	280		20	36
Bis(2-Chloroethoxy)Methane	<MDL		30	63	<MDL		40	72
Bis(2-Chloroethyl)Ether	<MDL		20	31	<MDL		20	36
Bis(2-Chloroisopropyl)Ether	<MDL		60	130	<MDL		70	140
Bis(2-Ethylhexyl)Phthalate	<MDL		20	31	3600		20	36
Chrysene	<MDL		20	31	990		20	36
Di-N-Butyl Phthalate	<MDL		30	63	<MDL		40	72
Di-N-Octyl Phthalate	<MDL		20	31	<MDL		20	36
Dibenzo(a,h)anthracene	<MDL		50	94	<MDL		60	110
Dibenzofuran	<MDL		30	63	<MDL		40	72
Diethyl Phthalate	<MDL		30	63	<MDL		40	72
Dimethyl Phthalate	<MDL		9	19	<MDL		10	22
Fluoranthene	<MDL		20	38	1400		20	43
Fluorene	<MDL		20	31	110		20	36
Hexachlorobenzene	<MDL		20	31	<MDL		20	36

1990 Core Stations (continued)

Section/Locator:	O4			LTBC35			N Below Cap			LTBD24		
	Value	May 14, 90 9000431 SALTWTRSED 80			Value	May 14, 90 9000432 SALTWTRSED 69			Value			
		Qual	MDL	RDL		Qual	MDL	RDL		Qual	MDL	RDL
Hexachlorobutadiene	<MDL	30	63		<MDL	40	72					
Hexachlorocyclopentadiene	<MDL	30	63		<MDL	40	72					
Hexachloroethane	<MDL	30	63		<MDL	40	72					
Indeno(1,2,3-Cd)Pyrene	<MDL	30	63	220		40	72					
Isophorone	<MDL	30	63		<MDL	40	72					
N-Nitrosodi-N-Propylamine	<MDL	30	63		<MDL	40	72					
N-Nitrosodimethylamine	<MDL	90	190		<MDL	100	220					
N-Nitrosodiphenylamine	<MDL	30	63		<MDL	40	72					
Naphthalene	<MDL	50	94		<MDL	60	110					
Nitrobenzene	<MDL	30	63		<MDL	40	72					
Pentachlorophenol	<MDL,L	30	63		<MDL,L	40	72					
Phenanthrene	<MDL	20	31	740		20	36					
Phenol	<MDL	90	190		<MDL	100	220					
Pyrene	<MDL	20	31	1200		20	36					
4,4'-DDD	<MDL	5	10		<MDL	6	12					
4,4'-DDE	<MDL	5	10		<MDL	6	12					
4,4'-DDT	<MDL	5	10		<MDL	6	12					
Aldrin	<MDL	5	10		<MDL	6	12					
Alpha-BHC	<MDL	5	10		<MDL	6	12					
Aroclor 1016	<MDL	50	100		<MDL	60	120					
Aroclor 1221	<MDL	50	100		<MDL	60	120					
Aroclor 1232	<MDL	50	100		<MDL	60	120					
Aroclor 1242	<MDL	50	100		<MDL	60	120					
Aroclor 1248	<MDL	50	100		<MDL	60	120					
Aroclor 1254	<MDL	50	100	1400		60	120					
Aroclor 1260	<MDL	50	100		<MDL	60	120					
Beta-BHC	<MDL	5	10		<MDL	6	12					
Chlordane	<MDL	30	53		<MDL	30	59					
Delta-BHC	<MDL	5	10		<MDL	6	12					
Dieldrin	<MDL	5	10		<MDL	6	12					
Endosulfan I	<MDL	5	10		<MDL	6	12					
Endosulfan II	<MDL	5	10		<MDL	6	12					
Endosulfan Sulfate	<MDL	5	10		<MDL	6	12					
Endrin	<MDL	5	10		<MDL	6	12					
Endrin Aldehyde	<MDL	5	10		<MDL	6	12					
Gamma-BHC (Lindane)	<MDL	5	10		<MDL	6	12					
Heptachlor	<MDL	5	10		<MDL	6	12					
Heptachlor Epoxide	<MDL	5	10		<MDL	6	12					
Methoxychlor	<MDL	30	53		<MDL	30	59					
Toxaphene	<MDL	50	100		<MDL	60	120					
1,1,1-Trichloroethane					<MDL	7	14					
1,1,2,2-Tetrachloroethane					<MDL	7	14					
1,1,2-Trichloroethane					<MDL	7	14					
1,1,2-Trichloroethylene					<MDL	7	14					
1,1-Dichloroethane					<MDL	7	14					
1,1-Dichloroethylene					<MDL	7	14					
1,2-Dichloroethane					<MDL	7	14					
1,2-Dichloropropane					<MDL	7	14					
2-Butanone (MEK)					<MDL	40	72					
2-Chloroethylvinyl ether					<MDL	7	14					
2-Hexanone					<MDL	40	72					
4-Methyl-2-Pentanone (MIBK)					<MDL	40	72					
Acetone				280		40	72					
Acrolein					<MDL	40	72					
Acrylonitrile					<MDL	40	72					
Benzene					<MDL	7	14					

1990 Core Stations (continued)

Section/Locator:	04 LTBC35				N Below Cap LTBD24			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:		May 14, 90				May 14, 90		
Lab ID:		9000431				9000432		
Matrix:		SALTWTRSED				SALTWTRSED		
% Solids:		80				69		
Parameters Dry Weight								
Bromodichloromethane					<MDL		7	14
Bromoform					<MDL		7	14
Bromomethane					<MDL		7	14
Carbon Disulfide					<MDL		7	14
Carbon Tetrachloride					<MDL		7	14
Chlorobenzene					<MDL		7	14
Chlorodibromomethane					<MDL		7	14
Chloroethane					<MDL		7	14
Chloroform					<MDL		7	14
Chloromethane					<MDL		7	14
cis-1,3-Dichloropropene					<MDL		7	14
Ethylbenzene					<MDL		7	14
Methylene Chloride					<MDL		40	72
Styrene					<MDL		7	14
Tetrachloroethylene					<MDL		7	14
Toluene					<MDL		7	14
Total Xylenes					<MDL		7	14
Trans-1,2-Dichloroethylene					<MDL		7	14
Trans-1,3-Dichloropropene					<MDL		7	14
Trichlorofluoromethane					<MDL		7	14
Vinyl Acetate					<MDL		40	72
Vinyl Chloride					<MDL		7	14
METALS mg/Kg								
	M.Code=CV							
Mercury	0.14				0.99			
	M.Code=GF							
Antimony	<MDL,E	1			2.9	E		
Thallium	<MDL,E,G	0.8			<MDL,E,G	3		
	M.Code=HE							
Arsenic	5	G			8.7	G		
Selenium	0.63				1.3			
	M.Code=PE							
Aluminum	9000	B			13000	B		
Barium	31	B,E			78	B,E		
Beryllium	0.13				0.29			
Cadmium	<MDL,L	0.3			1.4	L		
Chromium	12				45			
Copper	11				77			
Iron	19000				19000			
Lead	6.3				160			
Manganese								
Nickel	12				43			
Silver	<MDL	0.4			6.5			
Zinc	49	B			190	B		
CONVENTIONALS								
Particle Size in % phi								
p-2.00								
p-1.00	0.61	E	0.01		3.7	E	0.01	
p+0.00	7.3	E	0.01		2.1	E	0.01	
p+1.00	37	E	0.01		5.4	E	0.01	
p+2.00	40	E	0.01		7.9	E	0.01	
p+3.00	10	E	0.01		11	E	0.01	
p+4.00	0.5	E	0.01		12	E	0.01	
p+5.00	1.3	E	0.01		18	E	0.01	
p+6.00	0.56	E	0.01		15	E	0.01	
p+7.00	0.86	E	0.01		5.1	E	0.01	

1990 Core Stations (continued)

Section/Locator:	04 LTBC35				N Below Cap LTBD24			
	May 14, 90 9000431 SALTWTRSED 80				May 14, 90 9000432 SALTWTRSED 69			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
p+8.00		<MDL,E	0.01		3.6	E	0.01	
p+9.00	0.39	E	0.01		6.4	E	0.01	
p+10.0	0.33	E	0.01		3.1	E	0.01	
p+11.0		<MDL,E	0.01		2.9	E	0.01	
p+12.0	0.82	E	0.01		4	E	0.01	
Total Organic Carbon	10000	E	600		24000	E	700	
FIELD DATA								
Storm Or Non-Storm								
Tidal Condition								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sediment Sampling Range Bottom	21				96.5			
Sediment Sampling Range Top	5.72				81.3			

1990 Core Stations (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids: Parameters Dry Weight ORGANICS µg/Kg	N1 LTBD24				N2 LTBD24			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
1,2,4-Trichlorobenzene	<MDL		20	31	<MDL		20	32
1,2-Dichlorobenzene	<MDL		20	31	<MDL		20	32
1,2-Diphenylhydrazine	<MDL		60	120	<MDL		60	130
1,3-Dichlorobenzene	<MDL		20	31	<MDL		20	32
1,4-Dichlorobenzene	<MDL		20	31	<MDL		20	32
2,4,5-Trichlorophenol	<MDL		100	250	<MDL		100	250
2,4,6-Trichlorophenol	<MDL		100	250	<MDL		100	250
2,4-Dichlorophenol	<MDL		30	62	<MDL		30	63
2,4-Dimethylphenol	<MDL		30	62	<MDL		30	63
2,4-Dinitrophenol	<MDL		60	120	<MDL		60	130
2,4-Dinitrotoluene	<MDL,L		10	25	<MDL,L		10	25
2,6-Dinitrotoluene	<MDL		10	25	<MDL		10	25
2-Chloronaphthalene	<MDL		20	31	<MDL		20	32
2-Chlorophenol	<MDL		60	120	<MDL		60	130
2-Methylnaphthalene	<MDL		50	92	<MDL		50	95
2-Methylphenol	<MDL		30	62	<MDL		30	63
2-Nitroaniline	<MDL		90	180	<MDL		90	190
2-Nitrophenol	<MDL		30	62	<MDL		30	63
3,3'-Dichlorobenzidine	<MDL		30	62	<MDL		30	63
3-Nitroaniline	<MDL		90	180	<MDL		90	190
4,6-Dinitro-O-Cresol	<MDL		60	120	<MDL		60	130
4-Bromophenyl Phenyl Ether	<MDL		9	18	<MDL		9	19
4-Chloro-3-Methylphenol	<MDL		60	120	<MDL		60	130
4-Chloroaniline	<MDL		60	120	<MDL		60	130
4-Chlorophenyl Phenyl Ether	<MDL		20	31	<MDL		20	32
4-Methylphenol	<MDL		30	62	<MDL		30	63
4-Nitroaniline	<MDL		90	180	<MDL		90	190
4-Nitrophenol	<MDL		60	120	<MDL		60	130
Acenaphthene	<MDL		10	25	<MDL		10	25
Acenaphthylene	<MDL		20	31	<MDL		20	32
Aniline	<MDL		60	120	<MDL		60	130
Anthracene	<MDL		20	31	<MDL		20	32
Benzidine	<MDL		700	1500	<MDL		800	1500
Benzo(a)anthracene	<MDL		20	31	<MDL		20	32
Benzo(a)pyrene	<MDL		30	62	<MDL		30	63
Benzo(b)fluoranthene	<MDL		50	92	<MDL		50	95
Benzo(g,h,i)perylene	<MDL		30	62	<MDL		30	63
Benzo(k)fluoranthene	<MDL		50	92	<MDL		50	95
Benzoic Acid	310		90	180	<MDL		90	190
Benzyl Alcohol	<MDL		30	62	<MDL		30	63
Benzyl Butyl Phthalate	<MDL		20	31	<MDL		20	32
Bis(2-Chloroethoxy)Methane	<MDL		30	62	<MDL		30	63
Bis(2-Chloroethyl)Ether	<MDL		20	31	<MDL		20	32
Bis(2-Chloroisopropyl)Ether	<MDL		60	120	<MDL		60	130
Bis(2-Ethylhexyl)Phthalate	<MDL		20	31	<MDL		20	32
Chrysene	<MDL		20	31	<MDL		20	32
Di-N-Butyl Phthalate	<MDL		30	62	<MDL		30	63
Di-N-Octyl Phthalate	<MDL		20	31	<MDL		20	32
Dibenzo(a,h)anthracene	<MDL		50	92	<MDL		50	95
Dibenzofuran	<MDL		30	62	<MDL		30	63
Diethyl Phthalate	<MDL		30	62	<MDL		30	63
Dimethyl Phthalate	<MDL		9	18	<MDL		9	19
Fluoranthene	<MDL		20	37	<MDL		20	38
Fluorene	<MDL		20	31	<MDL		20	32
Hexachlorobenzene	<MDL		20	31	<MDL		20	32

1990 Core Stations (continued)

Section/Locator:	N1				N2			
	LTBD24			LTBD24				
Sampled:	May 14, 90 9000433			Sampled:	May 14, 90 9000434			
Lab ID:	SALTWTRSED			Lab ID:	SALTWTRSED			
Matrix:	81			Matrix:	79			
% Solids:					% Solids:			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Hexachlorobutadiene		<MDL	30	62		<MDL	30	63
Hexachlorocyclopentadiene		<MDL	30	62		<MDL	30	63
Hexachloroethane		<MDL	30	62		<MDL	30	63
Indeno(1,2,3-Cd)Pyrene		<MDL	30	62		<MDL	30	63
Isophorone		<MDL	30	62		<MDL	30	63
N-Nitrosodi-N-Propylamine		<MDL	30	62		<MDL	30	63
N-Nitrosodimethylamine		<MDL	90	180		<MDL	90	190
N-Nitrosodiphenylamine		<MDL	30	62		<MDL	30	63
Naphthalene		<MDL	50	92		<MDL	50	95
Nitrobenzene		<MDL	30	62		<MDL	30	63
Pentachlorophenol		<MDL,L	30	62		<MDL,L	30	63
Phenanthrene	43		20	31		<MDL	20	32
Phenol		<MDL	90	180		<MDL	90	190
Pyrene		<MDL	20	31		<MDL	20	32
4,4'-DDD						<MDL	6	11
4,4'-DDE						<MDL	6	11
4,4'-DDT						<MDL	6	11
Aldrin						<MDL	6	11
Alpha-BHC						<MDL	6	11
Aroclor 1016						<MDL	60	110
Aroclor 1221						<MDL	60	110
Aroclor 1232						<MDL	60	110
Aroclor 1242						<MDL	60	110
Aroclor 1248						<MDL	60	110
Aroclor 1254						<MDL	60	110
Aroclor 1260						<MDL	60	110
Beta-BHC						<MDL	6	11
Chlordane						<MDL	30	52
Delta-BHC						<MDL	6	11
Dieldrin						<MDL	6	11
Endosulfan I						<MDL	6	11
Endosulfan II						<MDL	6	11
Endosulfan Sulfate						<MDL	6	11
Endrin						<MDL	6	11
Endrin Aldehyde						<MDL	6	11
Gamma-BHC (Lindane)						<MDL	6	11
Heptachlor						<MDL	6	11
Heptachlor Epoxide						<MDL	6	11
Methoxychlor						<MDL	30	52
Toxaphene						<MDL	60	110
1,1,1-Trichloroethane								
1,1,2,2-Tetrachloroethane								
1,1,2-Trichloroethane								
1,1,2-Trichloroethylene								
1,1-Dichloroethane								
1,1-Dichloroethylene								
1,2-Dichloroethane								
1,2-Dichloropropane								
2-Butanone (MEK)								
2-Chloroethylvinyl ether								
2-Hexanone								
4-Methyl-2-Pantanone (MIBK)								
Acetone								
Acrolein								
Acrylonitrile								
Benzene								

1990 Core Stations (continued)

Section/Locator:	N1			LTBD24			N2			LTBD24		
	Value	Qual	MDL	RDL	May 14, 90 9000433 SALTWTRSED 81		Value	Qual	MDL	RDL	May 14, 90 9000434 SALTWTRSED 79	
Bromodichloromethane												
Bromoform												
Bromomethane												
Carbon Disulfide												
Carbon Tetrachloride												
Chlorobenzene												
Chlorodibromomethane												
Chloroethane												
Chloroform												
Chloromethane												
cis-1,3-Dichloropropene												
Ethylbenzene												
Methylene Chloride												
Styrene												
Tetrachloroethylene												
Toluene												
Total Xylenes												
Trans-1,2-Dichloroethylene												
Trans-1,3-Dichloropropene												
Trichlorofluoromethane												
Vinyl Acetate												
Vinyl Chloride												
METALS mg/Kg												
M.Code=CV												
Mercury	0.049						0.051					
M.Code=GF												
Antimony	<MDL,E	0.9					<MDL,E	1				
Thallium	<MDL,E,G	1					<MDL,E,G	0.9				
M.Code=HE												
Arsenic	6.2	G					5.1	G				
Selenium	0.62						0.76					
M.Code=PE												
Aluminum	8600	B					8700	B				
Barium	31	B,E					33	B,E				
Beryllium	0.25						0.25					
Cadmium	0.37	L					<MDL,L	0.3				
Chromium	15						14					
Copper	12						11					
Iron	18000						18000					
Lead	6.2						6.3					
Manganese												
Nickel	12						12					
Silver	0.49						<MDL	0.4				
Zinc	49	B					49	B				
CONVENTIONALS												
Particle Size in % phi												
p-2.00												
p-1.00	3.7	E	0.01				3.4	E	0.01			
p+0.00	13	E	0.01				7.4	E	0.01			
p+1.00	42	E	0.01				37	E	0.01			
p+2.00	30	E	0.01				48	E	0.01			
p+3.00	7.1	E	0.01				2.5	E	0.01			
p+4.00	0.47	E	0.01				0.29	E	0.01			
p+5.00	0.71	E	0.01				0.3	E	0.01			
p+6.00	0.36	E	0.01				0.2	E	0.01			
p+7.00	0.29	E	0.01				0.26	E	0.01			

1990 Core Stations (continued)

Section/Locator:	N1 LTBD24				N2 LTBD24			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:			May 14, 90				May 14, 90	
Lab ID:			9000433				9000434	
Matrix:			SALTWTRSED				SALTWTRSED	
% Solids:			81				79	
Parameters Dry Weight								
p+8.00	0.29	E	0.01		0.47	<MDL,E	0.01	
p+9.00	0.1	E	0.01					
p+10.0	0.03	E	0.01					
p+11.0	0.1	E	0.01		0.1	E	0.01	
p+12.0	1.9	E	0.01		0.9	E	0.01	
Total Organic Carbon	14000	E	600		1500	E	600	
FIELD DATA								
Storm Or Non-Storm								
Tidal Condition								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sediment Sampling Range Bottom	78.7				63.5			
Sediment Sampling Range Top	63.5				48.3			

1990 Core Stations (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids: Parameters Dry Weight ORGANICS $\mu\text{g}/\text{Kg}$	N3 LTBD24				N4 LTBD24			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
1,2,4-Trichlorobenzene	<MDL		20	34	<MDL		20	35
1,2-Dichlorobenzene	<MDL		20	34	<MDL		20	35
1,2-Diphenylhydrazine	<MDL		70	140	<MDL		70	140
1,3-Dichlorobenzene	<MDL		20	34	<MDL		20	35
1,4-Dichlorobenzene	<MDL		20	34	<MDL		20	35
2,4,5-Trichlorophenol	<MDL		100	270	<MDL		100	280
2,4,6-Trichlorophenol	<MDL		100	270	<MDL		100	280
2,4-Dichlorophenol	<MDL		30	68	<MDL		40	70
2,4-Dimethylphenol	<MDL		30	68	<MDL		40	70
2,4-Dinitrophenol	<MDL		70	140	<MDL		70	140
2,4-Dinitrotoluene	<MDL	L	10	27	<MDL	L	10	28
2,6-Dinitrotoluene	<MDL		10	27	<MDL		10	28
2-Chloronaphthalene	<MDL		20	34	<MDL		20	35
2-Chlorophenol	<MDL		70	140	<MDL		70	140
2-Methylnaphthalene	<MDL		50	100	<MDL		50	110
2-Methylphenol	<MDL		30	68	<MDL		40	70
2-Nitroaniline	<MDL		100	210	<MDL		100	210
2-Nitrophenol	<MDL		30	68	<MDL		40	70
3,3'-Dichlorobenzidine	<MDL		30	68	<MDL		40	70
3-Nitroaniline	<MDL		100	210	<MDL		100	210
4,6-Dinitro-O-Cresol	<MDL		70	140	<MDL		70	140
4-Bromophenyl Phenyl Ether	<MDL		10	21	<MDL		10	21
4-Chloro-3-Methylphenol	<MDL		70	140	<MDL		70	140
4-Chloroaniline	<MDL		70	140	<MDL		70	140
4-Chlorophenyl Phenyl Ether	<MDL		20	34	<MDL		20	35
4-Methylphenol	100		30	68	<MDL		40	70
4-Nitroaniline	<MDL		100	210	<MDL		100	210
4-Nitrophenol	<MDL		7	14	<MDL		70	140
Acenaphthene	<MDL		10	27	<MDL		10	28
Acenaphthylene	<MDL		20	34	<MDL		20	35
Aniline	<MDL		70	140	<MDL		70	140
Anthracene	<MDL		20	34	<MDL		20	35
Benzidine	<MDL		800	1600	<MDL		800	1700
Benzo(a)anthracene	<MDL		20	34	<MDL		20	35
Benzo(a)pyrene	<MDL		30	68	<MDL		40	70
Benzo(b)fluoranthene	<MDL		50	100	<MDL		50	110
Benzo(g,h,i)perylene	<MDL		30	68	<MDL		40	70
Benzo(k)fluoranthene	<MDL		50	100	<MDL		50	110
Benzoic Acid	270		100	210	280		100	210
Benzyl Alcohol	<MDL		30	68	<MDL		40	70
Benzyl Butyl Phthalate	<MDL		20	34	<MDL		20	35
Bis(2-Chloroethoxy)Methane	<MDL		30	68	<MDL		40	70
Bis(2-Chloroethyl)Ether	<MDL		20	34	<MDL		20	35
Bis(2-Chloroisopropyl)Ether	<MDL		70	140	<MDL		70	140
Bis(2-Ethylhexyl)Phthalate	<MDL		20	34	<MDL		20	35
Chrysene	42		20	34	<MDL		20	35
Di-N-Butyl Phthalate	<MDL		30	68	<MDL		40	70
Di-N-Octyl Phthalate	<MDL		20	34	<MDL		20	35
Dibenzo(a,h)anthracene	<MDL		50	100	<MDL		50	110
Dibenzofuran	<MDL		30	68	<MDL		40	70
Diethyl Phthalate	<MDL		30	68	<MDL		40	70
Dimethyl Phthalate	<MDL		10	21	<MDL		10	21
Fluoranthene	74		20	41	46		20	42
Fluorene	<MDL		20	34	<MDL		20	35
Hexachlorobenzene	<MDL		20	34	<MDL		20	35

1990 Core Stations (continued)

Section/Locator:	N3			LTBD24			N4			LTBD24		
	Sampled:	May 14, 90 9000435 SALTWTRSED 73			Sampled:	May 14, 90 9000436 SALTWTRSED 71			Sampled:			
Lab ID:	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Matrix:												
% Solids:												
Parameters Dry Weight												
Hexachlorobutadiene	<MDL		30	68	<MDL		40	70	<MDL		40	70
Hexachlorocyclopentadiene	<MDL		30	68	<MDL		40	70	<MDL		40	70
Hexachloroethane	<MDL		30	68	<MDL		40	70	<MDL		40	70
Indeno(1,2,3-Cd)Pyrene	<MDL		30	68	<MDL		40	70	<MDL		40	70
Isophorone	<MDL		30	68	<MDL		40	70	<MDL		40	70
N-Nitrosodi-N-Propylamine	<MDL		30	68	<MDL		40	70	<MDL		40	70
N-Nitrosodimethylamine	<MDL		100	210	<MDL		100	210	<MDL		100	210
N-Nitrosodiphenylamine	<MDL		30	68	<MDL		40	70	<MDL		40	70
Naphthalene	<MDL		50	100	<MDL		50	110	<MDL		50	110
Nitrobenzene	<MDL		30	68	<MDL		40	70	<MDL		40	70
Pentachlorophenol	<MDL,L		30	68	<MDL,L		40	70	<MDL,L		40	70
Phenanthrene	58		20	34	<MDL		20	35	<MDL		20	35
Phenol	<MDL		100	210	<MDL		100	210	<MDL		100	210
Pyrene	66		20	34	44		20	35	<MDL		20	35
4,4'-DDD	<MDL		5	11	<MDL		6	12	<MDL		6	12
4,4'-DDE	<MDL		5	11	<MDL		6	12	<MDL		6	12
4,4'-DDT	<MDL		5	11	<MDL		6	12	<MDL		6	12
Aldrin	<MDL		5	11	<MDL		6	12	<MDL		6	12
Alpha-BHC	<MDL		5	11	<MDL		6	12	<MDL		6	12
Aroclor 1016	<MDL		50	110	<MDL		60	120	<MDL		60	120
Aroclor 1221	<MDL		50	110	<MDL		60	120	<MDL		60	120
Aroclor 1232	<MDL		50	110	<MDL		60	120	<MDL		60	120
Aroclor 1242	<MDL		50	110	<MDL		60	120	<MDL		60	120
Aroclor 1248	<MDL		50	110	<MDL		60	120	<MDL		60	120
Aroclor 1254	<MDL		50	110	<MDL		60	120	<MDL		60	120
Aroclor 1260	<MDL		50	110	<MDL		60	120	<MDL		60	120
Beta-BHC	<MDL		5	11	<MDL		6	12	<MDL		6	12
Chlordane	<MDL		30	58	<MDL		30	59	<MDL		30	59
Delta-BHC	<MDL		5	11	<MDL		6	12	<MDL		6	12
Dieldrin	<MDL		5	11	<MDL		6	12	<MDL		6	12
Endosulfan I	<MDL		5	11	<MDL		6	12	<MDL		6	12
Endosulfan II	<MDL		5	11	<MDL		6	12	<MDL		6	12
Endosulfan Sulfate	<MDL		5	11	<MDL		6	12	<MDL		6	12
Endrin	<MDL		5	11	<MDL		6	12	<MDL		6	12
Endrin Aldehyde	<MDL		5	11	<MDL		6	12	<MDL		6	12
Gamma-BHC (Lindane)	<MDL		5	11	<MDL		6	12	<MDL		6	12
Heptachlor	<MDL		5	11	<MDL		6	12	<MDL		6	12
Heptachlor Epoxide	<MDL		5	11	<MDL		6	12	<MDL		6	12
Methoxychlor	<MDL		30	58	<MDL		30	59	<MDL		30	59
Toxaphene	<MDL		50	110	<MDL		60	120	<MDL		60	120
1,1,1-Trichloroethane												
1,1,2,2-Tetrachloroethane												
1,1,2-Trichloroethane												
1,1,2-Trichloroethylene												
1,1-Dichloroethane												
1,1-Dichloroethylene												
1,2-Dichloroethane												
1,2-Dichloropropane												
2-Butanone (MEK)												
2-Chloroethylvinyl ether												
2-Hexanone												
4-Methyl-2-Pentanone (MIBK)												
Acetone												
Acrolein												
Acrylonitrile												
Benzene												

1990 Core Stations (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids: Parameters Dry Weight	N3 LTBD24			N4 LTBD24				
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Bromodichloromethane								
Bromoform								
Bromomethane								
Carbon Disulfide								
Carbon Tetrachloride								
Chlorobenzene								
Chlorodibromomethane								
Chloroethane								
Chloroform								
Chloromethane								
cis-1,3-Dichloropropene								
Ethylbenzene								
Methylene Chloride								
Styrene								
Tetrachloroethylene								
Toluene								
Total Xylenes								
Trans-1,2-Dichloroethylene								
Trans-1,3-Dichloropropene								
Trichlorofluoromethane								
Vinyl Acetate								
Vinyl Chloride								
METALS mg/Kg								
M.Code=CV								
Mercury	0.055				0.056			
M.Code=GF								
Antimony	<MDL,E	1			<MDL,E	0.8		
Thallium	<MDL,E,G	1			<MDL,E,G	0.8		
M.Code=HE								
Arsenic	5.5	G			5.6	G		
Selenium	0.96				0.85			
M.Code=PE								
Aluminum	9300	B			11000	B		
Barium	40	B,E			59	B,E		
Beryllium	0.14				0.28			
Cadmium	0.27	L			0.28	L		
Chromium	13				14			
Copper	12				15			
Iron	18000				20000			
Lead	6.8				9.9			
Manganese								
Nickel	12				17			
Silver	<MDL	0.4			<MDL	0.4		
Zinc	51	B			55	B		
CONVENTIONALS								
Particle Size in % phi								
p-2.00								
p-1.00	2.3	E	0.01		2	E	0.01	
p+0.00	4.4	E	0.01		7.5	E	0.01	
p+1.00	24	E	0.01		30	E	0.01	
p+2.00	43	E	0.01		33	E	0.01	
p+3.00	17	E	0.01		9	E	0.01	
p+4.00	3	E	0.01		3.8	E	0.01	
p+5.00	1.3	E	0.01		3.8	E	0.01	
p+6.00	1.5	E	0.01		4.8	E	0.01	
p+7.00	0.88	E	0.01		1.9	E	0.01	

1990 Core Stations (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids:	N3 LTBD24				N4 LTBD24			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
p+8.00	0.61	E	0.01		1.5	E	0.01	
p+9.00	0.51	E	0.01		0.74	E	0.01	
p+10.0	0.1	E	0.01		0.48	E	0.01	
p+11.0	0.3	E	0.01		0.05	E	0.01	
p+12.0	1.5	E	0.01		1.7	E	0.01	
Total Organic Carbon	11000	E	700		25000	E	700	
FIELD DATA								
Storm Or Non-Storm								
Tidal Condition								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sediment Sampling Range Bottom	48.3				33			
Sediment Sampling Range Top	33				17.8			

1990 Core Stations (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids:	P Below Cap LTBC34				P1 LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Parameters Dry Weight ORGANICS µg/Kg								
1,2,4-Trichlorobenzene	<MDL,G	30	66		<MDL,G	20	30	
1,2-Dichlorobenzene	<MDL	30	66		<MDL	20	30	
1,2-Diphenylhydrazine	<MDL	100	260		<MDL	60	120	
1,3-Dichlorobenzene	<MDL	30	66		<MDL	20	30	
1,4-Dichlorobenzene	<MDL,G	30	66		<MDL,G	20	30	
2,4,5-Trichlorophenol	<MDL	300	530		<MDL	100	240	
2,4,6-Trichlorophenol	<MDL	300	530		<MDL	100	240	
2,4-Dichlorophenol	<MDL	70	130		<MDL	30	60	
2,4-Dimethylphenol	<MDL	70	130		<MDL	30	60	
2,4-Dinitrophenol	<MDL	100	260		<MDL	60	120	
2,4-Dinitrotoluene	<MDL	30	53		<MDL	10	24	
2-Chloronaphthalene	<MDL	30	66		<MDL	20	30	
2-Chlorophenol	<MDL	100	260		<MDL	60	120	
2-Methylnaphthalene	<MDL	100	200		<MDL	50	89	
2-Methylphenol	<MDL	70	130		<MDL	30	60	
2-Nitroaniline	<MDL	200	390		<MDL	90	180	
2-Nitrophenol	<MDL	70	130		<MDL	30	60	
3,3'-Dichlorobenzidine	<MDL	70	130		<MDL	30	60	
3-Nitroaniline	<MDL	200	390		<MDL	90	180	
4,6-Dinitro-O-Cresol	<MDL	100	260		<MDL	60	120	
4-Bromophenyl Phenyl Ether	<MDL	20	39		<MDL	9	18	
4-Chloro-3-Methylphenol	<MDL	100	260		<MDL	60	120	
4-Chloroaniline	<MDL	100	260		<MDL	60	120	
4-Chlorophenyl Phenyl Ether	<MDL	30	66		<MDL	20	30	
4-Methylphenol	<MDL	70	130		<MDL	30	60	
4-Nitroaniline	<MDL	200	390		<MDL	90	180	
4-Nitrophenol	<MDL	100	260		<MDL	60	120	
Acenaphthene	<MDL	30	53		<MDL	10	24	
Acenaphthylene	<MDL	30	66		<MDL	20	30	
Aniline	<MDL	100	260		<MDL	60	120	
Anthracene	130	30	66		<MDL	20	30	
Benzidine	<MDL	2000	3200		<MDL	700	1400	
Benzo(a)anthracene	340	30	66		<MDL	20	30	
Benzo(a)pyrene	470	70	130		<MDL	30	60	
Benzo(b)fluoranthene	610	100	200		<MDL	50	89	
Benzo(g,h,i)perylene	180	70	130		<MDL	30	60	
Benzo(k)fluoranthene	450	100	200		<MDL	50	89	
Benzoic Acid	390	200	390		<MDL	90	180	
Benzyl Alcohol	<MDL	70	130		<MDL	30	60	
Benzyl Butyl Phthalate	<MDL	30	66		<MDL	20	30	
Bis(2-Chloroethoxy)Methane	<MDL	70	130		<MDL	30	60	
Bis(2-Chloroethyl)Ether	<MDL	30	66		<MDL	20	30	
Bis(2-Chloroisopropyl)Ether	<MDL	100	260		<MDL	60	120	
Bis(2-Ethylhexyl)Phthalate	1200	30	66		<MDL	20	30	
Chrysene	500	30	66		<MDL	20	30	
Di-N-Butyl Phthalate	<MDL	70	130		<MDL	30	60	
Di-N-Octyl Phthalate	<MDL	30	66		<MDL	20	30	
Dibenzo(a,h)anthracene	<MDL	100	200		<MDL	50	89	
Dibenzofuran	<MDL	70	130		<MDL	30	60	
Diethyl Phthalate	<MDL	70	130		<MDL	30	60	
Dimethyl Phthalate	<MDL	20	39		<MDL	9	18	
Fluoranthene	660	40	79	40	<MDL	20	36	
Fluorene	<MDL	30	66		<MDL	20	30	
Hexachlorobenzene	<MDL	30	66		<MDL	20	30	

1990 Core Stations (continued)

Section/Locator:	P Below Cap			LTBC34			P1	LTBC34		
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL		
Sampled:			May 30, 90				May 30, 90			
Lab ID:			9000437				9000438			
Matrix:			SALTWTRSED				SALTWTRSED			
% Solids:			38				80			
Parameters Dry Weight										
Hexachlorobutadiene	<MDL		70	130	<MDL		30	60		
Hexachlorocyclopentadiene	<MDL		70	130	<MDL		30	60		
Hexachloroethane	<MDL		70	130	<MDL		30	60		
Indeno(1,2,3-Cd)Pyrene	210		70	130	<MDL		30	60		
Isophorone			<MDL	70	130	<MDL		30	60	
N-Nitrosodi-N-Propylamine			<MDL	70	130	<MDL		30	60	
N-Nitrosodimethylamine			<MDL	200	390	<MDL		90	180	
N-Nitrosodiphenylamine			<MDL	70	130	<MDL		30	60	
Naphthalene			<MDL	100	200	<MDL		50	89	
Nitrobenzene			<MDL	70	130	<MDL		30	60	
Pentachlorophenol			<MDL	70	130	<MDL		30	60	
Phenanthrene	530		30	66	<MDL		20	30		
Phenol			<MDL	200	390	<MDL		90	180	
Pyrene	1000		30	66	33		20	30		
4,4'-DDD	<MDL		6	11	<MDL		2	3.1		
4,4'-DDE	<MDL		6	11	<MDL		2	3.1		
4,4'-DDT	<MDL		6	11	<MDL		2	3.1		
Aldrin	<MDL		6	11	<MDL		2	3.1		
Alpha-BHC	<MDL		6	11	<MDL		2	3.1		
Aroclor 1016	<MDL		60	110	<MDL		20	31		
Aroclor 1221	<MDL		60	110	<MDL		20	31		
Aroclor 1232	<MDL		60	110	<MDL		20	31		
Aroclor 1242	<MDL		60	110	<MDL		20	31		
Aroclor 1248	<MDL		60	110	<MDL		20	31		
Aroclor 1254	<MDL		60	110	<MDL		20	31		
Aroclor 1260	<MDL		60	110	<MDL		20	31		
Beta-BHC	<MDL		6	11	<MDL		2	3.1		
Chlordane	<MDL		30	55	<MDL		8	16		
Delta-BHC	<MDL		6	11	<MDL		2	3.1		
Dieldrin	<MDL		6	11	<MDL		2	3.1		
Endosulfan I	<MDL		6	11	<MDL		2	3.1		
Endosulfan II	<MDL		6	11	<MDL		2	3.1		
Endosulfan Sulfate	<MDL		6	11	<MDL		2	3.1		
Endrin	<MDL		6	11	<MDL		2	3.1		
Endrin Aldehyde	<MDL		6	11	<MDL		2	3.1		
Gamma-BHC (Lindane)	<MDL		6	11	<MDL		2	3.1		
Heptachlor	<MDL		6	11	<MDL		2	3.1		
Heptachlor Epoxide	<MDL		6	11	<MDL		2	3.1		
Methoxychlor	<MDL		30	55	<MDL		8	16		
Toxaphene	<MDL		60	110	<MDL		20	31		
1,1,1-Trichloroethane	<MDL		10	26						
1,1,2,2-Tetrachloroethane	<MDL		10	26						
1,1,2-Trichloroethane	<MDL		10	26						
1,1,2-Trichloroethylene	<MDL		10	26						
1,1-Dichloroethane	<MDL		10	26						
1,1-Dichloroethylene	<MDL		10	26						
1,2-Dichloroethane	<MDL		10	26						
1,2-Dichloropropane	<MDL		10	26						
2-Butanone (MEK)	<MDL		80	130						
2-Chloroethylvinyl ether	<MDL		10	26						
2-Hexanone	<MDL		80	130						
4-Methyl-2-Pentanone (MIBK)	<MDL		80	130						
Acetone	710		80	130						
Acrolein	<MDL		80	130						
Acrylonitrile	<MDL		80	130						
Benzene	<MDL		10	26						

1990 Core Stations (continued)

Section/Locator:	P Below Cap	LTBC34			P1	LTBC34			
Sampled:	May 30, 90			May 30, 90			May 30, 90		
Lab ID:	9000437			9000438			9000438		
Matrix:	SALTWTRSED			SALTWTRSED			SALTWTRSED		
% Solids:	38			80			80		
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	
Bromodichloromethane		<MDL	10	26					
Bromoform		<MDL	10	26					
Bromomethane		<MDL	10	26					
Carbon Disulfide		<MDL	10	26					
Carbon Tetrachloride		<MDL	10	26					
Chlorobenzene		<MDL	10	26					
Chlorodibromomethane		<MDL	10	26					
Chloroethane		<MDL	10	26					
Chloroform		<MDL	10	26					
Chloromethane		<MDL	10	26					
cis-1,3-Dichloropropene		<MDL	10	26					
Ethylbenzene		<MDL	10	26					
Methylene Chloride		<MDL	80	130					
Styrene		<MDL	10	26					
Tetrachloroethylene		<MDL	10	26					
Toluene		<MDL	10	26					
Total Xylenes		<MDL	10	26					
Trans-1,2-Dichloroethylene		<MDL	10	26					
Trans-1,3-Dichloropropene		<MDL	10	26					
Trichlorofluoromethane		<MDL	10	26					
Vinyl Acetate		<MDL	80	130					
Vinyl Chloride		<MDL	10	26					
METALS mg/Kg									
M.Code=CV									
Mercury	0.39				0.025				
M.Code=GF									
Antimony	1.8				<MDL	0.8			
Thallium	<MDL,E	2			<MDL,E	1			
M.Code=HE									
Arsenic	18	G			3.8	G			
Selenium	1.6				<MDL	0.8			
M.Code=PE									
Aluminum	19000	B			10000	B			
Barium	71	B			33	B			
Beryllium	0.26				0.13				
Cadmium	0.79	L			<MDL,L	0.3			
Chromium	58				14				
Copper	55				11				
Iron	24000	B			18000	B			
Lead	82				5				
Manganese									
Nickel	55				12				
Silver	2.6				<MDL	0.4			
Zinc	110				46				
CONVENTIONALS									
Particle Size in % phi									
p-2.00									
p-1.00		<MDL,E	0.01		2	E	0.01		
p+0.00		<MDL,E	0.01		9.5	E	0.01		
p+1.00	23	E	0.01		36	E	0.01		
p+2.00	3.3	E	0.01		40	E	0.01		
p+3.00	0.26	E	0.01		8.5	E	0.01		
p+4.00	5.5	E	0.01		0.45	E	0.01		
p+5.00	7.3	E	0.01		1.1	E	0.01		
p+6.00	37	E	0.01		2.2	E	0.01		
p+7.00	7.9	E	0.01		0.23	E	0.01		

1990 Core Stations (continued)								
Section/Locator:	P Below Cap LTBC34				P1 LTBC34			
	May 30, 90	9000437	SALTWTRSED	38	May 30, 90	9000438	SALTWTRSED	80
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
p+8.00	4.6	E	0.01		0.26	E	0.01	
p+9.00	2.1	E	0.01		0.15	E	0.01	
p+10.0	1.7	E	0.01		0.01	E	0.01	
p+11.0	0.43	E	0.01		0.01	E	0.01	
p+12.0	6.2	E	0.01		1.2	E	0.01	
Total Organic Carbon	41000		1000		1100		600	
FIELD DATA								
Storm Or Non-Storm								
Tidal Condition								
Sample Function	SAMP			SAMP				
Sample Start Time								
Sediment Sampling Range Bottom	86.4			77.5				
Sediment Sampling Range Top	80			62.2				

1990 Core Stations (continued)

Section/Locator:	P2				LTBC34				P3				LTBC34			
	Sampled:	May 30, 90 9000439			Matrix:	SALTWTRSED 76			Sampled:	May 30, 90 9000440			Matrix:	SALTWTRSED 67		
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg																
1,2,4-Trichlorobenzene	<MDL,G		20	32		<MDL,G				<MDL,G				20	37	
1,2-Dichlorobenzene	<MDL		20	32		<MDL				<MDL				20	37	
1,2-Diphenylhydrazine	<MDL		70	130		<MDL				<MDL				70	150	
1,3-Dichlorobenzene	<MDL		20	32		<MDL				<MDL				20	37	
1,4-Dichlorobenzene	<MDL,G		20	32		<MDL,G				<MDL,G				20	37	
2,4,5-Trichlorophenol	<MDL		100	250		<MDL				<MDL				100	300	
2,4,6-Trichlorophenol	<MDL		100	250		<MDL				<MDL				100	300	
2,4-Dichlorophenol	<MDL		30	63		<MDL				<MDL				40	75	
2,4-Dimethylphenol	<MDL		30	63		<MDL				<MDL				40	75	
2,4-Dinitrophenol	<MDL		70	130		<MDL				<MDL				70	150	
2,4-Dinitrotoluene	<MDL		10	25		<MDL				<MDL				10	30	
2,6-Dinitrotoluene	<MDL		10	25		<MDL				<MDL				10	30	
2-Chloronaphthalene	<MDL		20	32		<MDL				<MDL				20	37	
2-Chlorophenol	<MDL		70	130		<MDL				<MDL				70	150	
2-Methylnaphthalene	<MDL		50	93		<MDL				<MDL				60	110	
2-Methylphenol	<MDL		30	63		<MDL				<MDL				40	75	
2-Nitroaniline	<MDL		90	180		<MDL				<MDL				100	220	
2-Nitrophenol	<MDL		30	63		<MDL				<MDL				40	75	
3,3'-Dichlorobenzidine	<MDL		30	63		<MDL				<MDL				40	75	
3-Nitroaniline	<MDL		90	180		<MDL				<MDL				100	220	
4,6-Dinitro-O-Cresol	<MDL		70	130		<MDL				<MDL				70	150	
4-Bromophenyl Phenyl Ether	<MDL		9	18		<MDL				<MDL				10	22	
4-Chloro-3-Methylphenol	<MDL		70	130		<MDL				<MDL				70	150	
4-Chloroaniline	<MDL		70	130		<MDL				<MDL				70	150	
4-Chlorophenyl Phenyl Ether	<MDL		20	32		<MDL				<MDL				20	37	
4-Methylphenol	<MDL		30	63	79					<MDL				40	75	
4-Nitroaniline	<MDL		90	180		<MDL				<MDL				100	220	
4-Nitrophenol	<MDL		70	130		<MDL				<MDL				70	150	
Acenaphthene	<MDL		10	25		<MDL				<MDL				10	30	
Acenaphthylene	<MDL		20	32		<MDL				<MDL				20	37	
Aniline	<MDL		70	130		<MDL				<MDL				70	150	
Anthracene	<MDL		20	32	63					<MDL				20	37	
Benzidine	<MDL		700	1400		<MDL				<MDL				900	1800	
Benzo(a)anthracene	<MDL		20	32	220					<MDL				20	37	
Benzo(a)pyrene	<MDL		30	63	280					<MDL				40	75	
Benzo(b)fluoranthene	<MDL		50	93	390					<MDL				60	110	
Benzo(g,h,i)perylene	<MDL		30	63	110					<MDL				40	75	
Benzo(k)fluoranthene	<MDL		50	93	340					<MDL				60	110	
Benzoic Acid	<MDL		90	180	400					<MDL				100	220	
Benzyl Alcohol	<MDL		30	63		<MDL				<MDL				40	75	
Benzyl Butyl Phthalate	<MDL		20	32		<MDL				<MDL				20	37	
Bis(2-Chloroethoxy)Methane	<MDL		30	63		<MDL				<MDL				40	75	
Bis(2-Chloroethyl)Ether	<MDL		20	32		<MDL				<MDL				20	37	
Bis(2-Chloroisopropyl)Ether	<MDL		70	130		<MDL				<MDL				70	150	
Bis(2-Ethylhexyl)Phthalate	<MDL		20	32	870					<MDL				20	37	
Chrysene	<MDL		20	32	370					<MDL				20	37	
Di-N-Butyl Phthalate	<MDL		30	63		<MDL				<MDL				40	75	
Di-N-Octyl Phthalate	<MDL		20	32		<MDL				<MDL				20	37	
Dibenzo(a,h)anthracene	<MDL		50	93		<MDL				<MDL				60	110	
Dibenzofuran	<MDL		30	63		<MDL				<MDL				40	75	
Diethyl Phthalate	<MDL		30	63		<MDL				<MDL				40	75	
Dimethyl Phthalate	<MDL		9	18		<MDL				<MDL				10	22	
Fluoranthene	<MDL		20	38	720					<MDL				20	45	
Fluorene	<MDL		20	32	48					<MDL				20	37	
Hexachlorobenzene	<MDL		20	32		<MDL				<MDL				20	37	

1990 Core Stations (continued)

Section/Locator:	P2 LTBC34				P3 LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:					May 30, 90			
Lab ID:					9000439			
Matrix:					SALTWTRSED			
% Solids:					76			
Parameters Dry Weight								
Hexachlorobutadiene	<MDL	30	63		<MDL	40	75	
Hexachlorocyclopentadiene	<MDL	30	63		<MDL	40	75	
Hexachloroethane	<MDL	30	63		<MDL	40	75	
Indeno(1,2,3-Cd)Pyrene	<MDL	30	63	130		40	75	
Isophorone	<MDL	30	63		<MDL	40	75	
N-Nitrosodi-N-Propylamine	<MDL	30	63		<MDL	40	75	
N-Nitrosodimethylamine	<MDL	90	180		<MDL	100	220	
N-Nitrosodiphenylamine	<MDL	30	63		<MDL	40	75	
Naphthalene	<MDL	50	93		<MDL	60	110	
Nitrobenzene	<MDL	30	63		<MDL	40	75	
Pentachlorophenol	<MDL	30	63		<MDL	40	75	
Phenanthrene	<MDL	20	32	450		20	37	
Phenol	<MDL	90	180		<MDL	100	220	
Pyrene	<MDL	20	32	430		20	37	
4,4'-DDD	<MDL	2	3.3		<MDL	2	3.7	
4,4'-DDE	<MDL	2	3.3		<MDL	2	3.7	
4,4'-DDT	<MDL	2	3.3		<MDL	2	3.7	
Aldrin	<MDL	2	3.3		<MDL	2	3.7	
Alpha-BHC	<MDL	2	3.3		<MDL	2	3.7	
Aroclor 1016	<MDL	20	33		<MDL	20	37	
Aroclor 1221	<MDL	20	33		<MDL	20	37	
Aroclor 1232	<MDL	20	33		<MDL	20	37	
Aroclor 1242	<MDL	20	33		<MDL	20	37	
Aroclor 1248	<MDL	20	33		<MDL	20	37	
Aroclor 1254	<MDL	20	33		<MDL	20	37	
Aroclor 1260	<MDL	20	33		<MDL	20	37	
Beta-BHC	<MDL	2	3.3		<MDL	2	3.7	
Chlordane	<MDL	8	16		<MDL	10	19	
Delta-BHC	<MDL	2	3.3		<MDL	2	3.7	
Dieldrin	<MDL	2	3.3		<MDL	2	3.7	
Endosulfan I	<MDL	2	3.3		<MDL	2	3.7	
Endosulfan II	<MDL	2	3.3		<MDL	2	3.7	
Endosulfan Sulfate	<MDL	2	3.3		<MDL	2	3.7	
Endrin	<MDL	2	3.3		<MDL	2	3.7	
Endrin Aldehyde	<MDL	2	3.3		<MDL	2	3.7	
Gamma-BHC (Lindane)	<MDL	2	3.3		<MDL	2	3.7	
Heptachlor	<MDL	2	3.3		<MDL	2	3.7	
Heptachlor Epoxide	<MDL	2	3.3		<MDL	2	3.7	
Methoxychlor	<MDL	8	16		<MDL	10	19	
Toxaphene	<MDL	20	33		<MDL	20	37	
1,1,1-Trichloroethane								
1,1,2,2-Tetrachloroethane								
1,1,2-Trichloroethane								
1,1,2-Trichloroethylene								
1,1-Dichloroethane								
1,1-Dichloroethylene								
1,2-Dichloroethane								
1,2-Dichloropropane								
2-Butanone (MEK)								
2-Chloroethylvinyl ether								
2-Hexanone								
4-Methyl-2-Pentanone (MIBK)								
Acetone								
Acrolein								
Acrylonitrile								
Benzene								

1990 Core Stations (continued)

Section/Locator:	P2 LTBC34				P3 LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:					May 30, 90			
Lab ID:					9000439			
Matrix:					SALTWTRSED			
% Solids:					76			
Parameters Dry Weight								
Bromodichloromethane								
Bromoform								
Bromomethane								
Carbon Disulfide								
Carbon Tetrachloride								
Chlorobenzene								
Chlorodibromomethane								
Chloroethane								
Chloroform								
Chloromethane								
cis-1,3-Dichloropropene								
Ethylbenzene								
Methylene Chloride								
Styrene								
Tetrachloroethylene								
Toluene								
Total Xylenes								
Trans-1,2-Dichloroethylene								
Trans-1,3-Dichloropropene								
Trichlorofluoromethane								
Vinyl Acetate								
Vinyl Chloride								
METALS mg/Kg								
M.Code=CV								
Mercury	0.026				0.1			
M.Code=GF								
Antimony	<MDL		1		<MDL		1	
Thallium	<MDL,E		1		<MDL,E		1	
M.Code=HE								
Arsenic	2.6	G			4.5	G		
Selenium	<MDL		0.8		0.9			
M.Code=PE								
Aluminum	12000	B			16000	B		
Barium	32	B			54	B		
Beryllium	0.13				0.3			
Cadmium	<MDL,L		0.3		0.3	L		
Chromium	14				24			
Copper	12				22			
Iron	20000	B			24000	B		
Lead	6.6				15			
Manganese								
Nickel	14				18			
Silver	<MDL		0.4		0.45			
Zinc	54				75			
CONVENTIONALS								
Particle Size in % phi								
p-2.00								
p-1.00	1.8	E	0.01		1.6	E	0.01	
p+0.00	7.2	E	0.01		3.7	E	0.01	
p+1.00	38	E	0.01		21	E	0.01	
p+2.00	43	E	0.01		28	E	0.01	
p+3.00	5.7	E	0.01		6.6	E	0.01	
p+4.00	0.4	E	0.01		4	E	0.01	
p+5.00	0.69	E	0.01		11	E	0.01	
p+6.00	0.48	E	0.01		8.2	E	0.01	
p+7.00	0.51	E	0.01		5	E	0.01	

1990 Core Stations (continued)								
Section/Locator:	P2 LTBC34				P3 LTBC34			
Sampled:	May 30, 90 9000439				May 30, 90 9000440			
Lab ID:	SALTWTRSED 76				SALTWTRSED 67			
Matrix:								
% Solids:								
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
p+8.00	0.31	E	0.01		7.4	E	0.01	
p+9.00	0.19	E	0.01		1.9	E	0.01	
p+10.0	0.04	E	0.01		0.15	E	0.01	
p+11.0	0.02	E	0.01		0.13	E	0.01	
p+12.0	1.2	E	0.01		0.75	E	0.01	
Total Organic Carbon	1700		700		27000		700	
FIELD DATA								
Storm Or Non-Storm								
Tidal Condition								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sediment Sampling Range Bottom	62.2				47			
Sediment Sampling Range Top	47				31.8			

1990 Core Stations (continued)

Section/Locator:	P4	LTBC34		
Sampled:		May 30, 90		
Lab ID:		9000441		
Matrix:		SALTWTRSED		
% Solids:		79		
Parameters Dry Weight ORGANICS $\mu\text{g}/\text{Kg}$	Value	Qual	MDL	RDL
1,2,4-Trichlorobenzene	<MDL,G	20	32	
1,2-Dichlorobenzene	<MDL	20	32	
1,2-Diphenylhydrazine	<MDL	60	130	
1,3-Dichlorobenzene	<MDL	20	32	
1,4-Dichlorobenzene	<MDL,G	20	32	
2,4,5-Trichlorophenol	<MDL	100	250	
2,4,6-Trichlorophenol	<MDL	100	250	
2,4-Dichlorophenol	<MDL	30	63	
2,4-Dimethylphenol	<MDL	30	63	
2,4-Dinitrophenol	<MDL	60	130	
2,4-Dinitrotoluene	<MDL	10	25	
2,6-Dinitrotoluene	<MDL	10	25	
2-Chloronaphthalene	<MDL	20	32	
2-Chlorophenol	<MDL	60	130	
2-Methylnaphthalene	<MDL	50	95	
2-Methylphenol	<MDL	30	63	
2-Nitroaniline	<MDL	90	190	
2-Nitrophenol	<MDL	30	63	
3,3'-Dichlorobenzidine	<MDL	30	63	
3-Nitroaniline	<MDL	90	190	
4,6-Dinitro-O-Cresol	<MDL	60	130	
4-Bromophenyl Phenyl Ether	<MDL	9	19	
4-Chloro-3-Methylphenol	<MDL	60	130	
4-Chloroaniline	<MDL	60	130	
4-Chlorophenyl Phenyl Ether	<MDL	20	32	
4-Methylphenol	<MDL	30	63	
4-Nitroaniline	<MDL	90	190	
4-Nitrophenol	<MDL	60	130	
Acenaphthene	<MDL	10	25	
Acenaphthylene	<MDL	20	32	
Aniline	<MDL	60	130	
Anthracene	<MDL	20	32	
Benzidine	<MDL	800	1500	
Benzo(a)anthracene	<MDL	20	32	
Benzo(a)pyrene	<MDL	30	63	
Benzo(b)fluoranthene	<MDL	50	95	
Benzo(g,h,i)perylene	<MDL	30	63	
Benzo(k)fluoranthene	<MDL	50	95	
Benzoic Acid	<MDL	90	190	
Benzyl Alcohol	<MDL	30	63	
Benzyl Butyl Phthalate	<MDL	20	32	
Bis(2-Chloroethoxy)Methane	<MDL	30	63	
Bis(2-Chloroethyl)Ether	<MDL	20	32	
Bis(2-Chloroisopropyl)Ether	<MDL	60	130	
Bis(2-Ethylhexyl)Phthalate	<MDL	20	32	
Chrysene	<MDL	20	32	
Di-N-Butyl Phthalate	<MDL	30	63	
Di-N-Octyl Phthalate	<MDL	20	32	
Dibenzo(a,h)anthracene	<MDL	50	95	
Dibenzofuran	<MDL	30	63	
Diethyl Phthalate	<MDL	30	63	
Dimethyl Phthalate	<MDL	9	19	
Fluoranthene	<MDL	20	38	
Fluorene	<MDL	20	32	
Hexachlorobenzene	<MDL	20	32	

1990 Core Stations (continued)

Section/Locator:	P4	LTBC34		
Sampled:		May 30, 90		
Lab ID:		9000441		
Matrix:		SALTWTRSED		
% Solids:		79		
Parameters Dry Weight	Value	Qual	MDL	RDL
Hexachlorobutadiene	<MDL		30	63
Hexachlorocyclopentadiene	<MDL		30	63
Hexachloroethane	<MDL		30	63
Indeno(1,2,3-Cd)Pyrene	<MDL		30	63
Isophorone	<MDL		30	63
N-Nitrosodi-N-Propylamine	<MDL		30	63
N-Nitrosodimethylamine	<MDL		90	190
N-Nitrosodiphenylamine	<MDL		30	63
Naphthalene	<MDL		50	95
Nitrobenzene	<MDL		30	63
Pentachlorophenol	<MDL		30	63
Phenanthrene	<MDL		20	32
Phenol	<MDL		90	190
Pyrene	<MDL		20	32
4,4'-DDD	<MDL		2	3.2
4,4'-DDE	<MDL		2	3.2
4,4'-DDT	<MDL		2	3.2
Aldrin	<MDL		2	3.2
Alpha-BHC	<MDL		2	3.2
Aroclor 1016	<MDL		20	32
Aroclor 1221	<MDL		20	32
Aroclor 1232	<MDL		20	32
Aroclor 1242	<MDL		20	32
Aroclor 1248	<MDL		20	32
Aroclor 1254	<MDL		20	32
Aroclor 1260	<MDL		20	32
Beta-BHC	<MDL		2	3.2
Chlordane	<MDL		8	16
Delta-BHC	<MDL		2	3.2
Dieldrin	<MDL		2	3.2
Endosulfan I	<MDL		2	3.2
Endosulfan II	<MDL		2	3.2
Endosulfan Sulfate	<MDL		2	3.2
Endrin	<MDL		2	3.2
Endrin Aldehyde	<MDL		2	3.2
Gamma-BHC (Lindane)	<MDL		2	3.2
Heptachlor	<MDL		2	3.2
Heptachlor Epoxide	<MDL		2	3.2
Methoxychlor	<MDL		8	16
Toxaphene	<MDL		20	32
1,1,1-Trichloroethane				
1,1,2,2-Tetrachloroethane				
1,1,2-Trichloroethane				
1,1,2-Trichloroethylene				
1,1-Dichloroethane				
1,1-Dichloroethylene				
1,2-Dichloroethane				
1,2-Dichloropropane				
2-Butanone (MEK)				
2-Chloroethylvinyl ether				
2-Hexanone				
4-Methyl-2-Pentanone (MIBK)				
Acetone				
Acrolein				
Acrylonitrile				
Benzene				

1990 Core Stations (continued)

Section/Locator:	P4	LTBC34		
	Value	Qual	MDL	RDL
Sampled:			May 30, 90	
Lab ID:			9000441	
Matrix:			SALTWTRSED	
% Solids:			79	
Parameters Dry Weight				
Bromodichloromethane				
Bromoform				
Bromomethane				
Carbon Disulfide				
Carbon Tetrachloride				
Chlorobenzene				
Chlorodibromomethane				
Chloroethane				
Chloroform				
Chloromethane				
cis-1,3-Dichloropropene				
Ethylbenzene				
Methylene Chloride				
Styrene				
Tetrachloroethylene				
Toluene				
Total Xylenes				
Trans-1,2-Dichloroethylene				
Trans-1,3-Dichloropropene				
Trichlorofluoromethane				
Vinyl Acetate				
Vinyl Chloride				
METALS mg/Kg				
M.Code=CV				
Mercury	0.025			
M.Code=GF				
Antimony	<MDL		0.9	
Thallium	<MDL,E		1	
M.Code=HE				
Arsenic	2.5	G		
Selenium	<MDL		0.8	
M.Code=PE				
Aluminum	11000	B		
Barium	38	B		
Beryllium	0.13			
Cadmium	<MDL,L		0.3	
Chromium	16			
Copper	10			
Iron	19000	B		
Lead	5.1			
Manganese				
Nickel	14			
Silver	<MDL		0.4	
Zinc	51			
CONVENTIONALS				
Particle Size in % phi				
p-2.00				
p-1.00	0.93	E	0.01	
p+0.00	4.9	E	0.01	
p+1.00	30	E	0.01	
p+2.00	51	E	0.01	
p+3.00	10	E	0.01	
p+4.00	0.76	E	0.01	
p+5.00	0.47	E	0.01	
p+6.00	0.31	E	0.01	
p+7.00	0.16	E	0.01	

1990 Core Stations (continued)				
Section/Locator:	P4	LTBC34		
Sampled:	May 30, 90			
Lab ID:	9000441			
Matrix:	SALTWTRSED			
% Solids:	79			
Parameters Dry Weight	Value	Qual	MDL	RDL
p+8.00	0.2	E	0.01	
p+9.00	0.07	E	0.01	
p+10.0	0.06	E	0.01	
p+11.0	0.04	E	0.01	
p+12.0	0.58	E	0.01	
Total Organic Carbon	1500		600	
FIELD DATA				
Storm Or Non-Storm				
Tidal Condition				
Sample Function	SAMP			
Sample Start Time				
Sediment Sampling Range Bottom	31.8			
Sediment Sampling Range Top	16.5			

1991 Core Samples

Section/Locator:	N Below Cap LTBC34				N1 LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
1,2,4-Trichlorobenzene	<MDL		20	39	<MDL		10	21
1,2-Dichlorobenzene	<MDL		20	39	<MDL		10	21
1,2-Diphenylhydrazine	<MDL		70	150	<MDL		40	83
1,3-Dichlorobenzene	<MDL		20	39	<MDL		10	21
1,4-Dichlorobenzene	<MDL,G		20	39	<MDL,G		10	21
2,4,5-Trichlorophenol	<MDL		200	300	<MDL		90	160
2,4,6-Trichlorophenol	<MDL		200	300	<MDL		90	160
2,4-Dichlorophenol	<MDL		50	75	<MDL		20	41
2,4-Dimethylphenol	<MDL		50	75	<MDL		20	41
2,4-Dinitrophenol	<MDL		70	150	<MDL		40	83
2,4-Dinitrotoluene	<MDL		20	30	<MDL		9	16
2,6-Dinitrotoluene	<MDL		20	30	<MDL		9	16
2-Chloronaphthalene	<MDL		20	39	<MDL		10	21
2-Chlorophenol	<MDL		70	150	<MDL		40	83
2-Methylnaphthalene	<MDL		70	110	<MDL		40	62
2-Methylphenol	<MDL		50	75	<MDL		20	41
2-Nitroaniline	<MDL		100	230	<MDL		60	120
2-Nitrophenol	<MDL		50	75	<MDL		20	41
3-Nitroaniline	<MDL		100	230	<MDL		60	120
4,6-Dinitro-O-Cresol	<MDL		70	150	<MDL		40	83
4-Bromophenyl Phenyl Ether	<MDL		10	23	<MDL		6	12
4-Chloro-3-Methylphenol	<MDL		70	150	<MDL		40	83
4-Chloroaniline	<MDL		70	150	<MDL		40	83
4-Chlorophenyl Phenyl Ether	<MDL		20	39	<MDL		10	21
4-Methylphenol	<MDL		50	75	<MDL		20	41
4-Nitroaniline	<MDL		100	230	<MDL		60	120
4-Nitrophenol	<MDL		70	150	<MDL		40	83
Acenaphthene	<MDL		20	30	<MDL		9	16
Acenaphthylene	<MDL		20	39	<MDL		10	21
Aniline	<MDL		70	150	<MDL		40	83
Anthracene	61		20	39	<MDL		10	21
Benzidine	<MDL		900	1800	<MDL		500	990
Benzo(a)anthracene	180		20	39	20		10	21
Benzo(a)pyrene	250		50	75	<MDL		20	41
Benzo(b)fluoranthene	300		70	110	<MDL		40	62
Benzo(g,h,i)perylene	80		50	75	<MDL		20	41
Benzo(k)fluoranthene	270		70	110	<MDL		40	62
Benzoic Acid	<MDL		100	230	<MDL		60	120
Benzyl Alcohol	<MDL		50	75	<MDL		20	41
Benzyl Butyl Phthalate	<MDL		20	39	<MDL		10	21
Bis(2-Chloroethoxy)Methane	<MDL		50	75	<MDL		20	41
Bis(2-Chloroethyl)Ether	<MDL		50	75	<MDL		20	41
Bis(2-Chloroisopropyl)Ether	<MDL		70	150	<MDL		40	83
Bis(2-Ethylhexyl)Phthalate	590		20	39	270		10	21
Chrysene	300		20	39	20		10	21
Di-N-Butyl Phthalate	<MDL,B		50	75	<MDL,B		20	41
Di-N-Octyl Phthalate	<MDL		20	39	<MDL		10	21
Dibenzo(a,h)anthracene	<MDL		70	110	<MDL		40	62
Dibenzofuran	<MDL		50	75	<MDL		20	41
Diethyl Phthalate	<MDL		50	75	<MDL		20	41
Dimethyl Phthalate	<MDL		10	23	<MDL		6	12
Fluoranthene	250		20	45	46		10	25
Fluorene	<MDL		20	39	<MDL		10	21
Hexachlorobenzene	<MDL		20	39	<MDL		10	21
Hexachlorobutadiene	<MDL		50	75	<MDL		20	41

1991 Core Samples (continued)

Section/Locator:	N Below Cap				LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:			May 30, 91				May 30, 91	
Lab ID:			9101228				9101229	
Matrix:			SALTWTRSED				SALTWTRSED	
% Solids:			44				81	
Parameters Dry Weight								
Hexachlorocyclopentadiene	<MDL		50	75	<MDL		20	41
Hexachloroethane	<MDL		50	75	<MDL		20	41
Indeno(1,2,3-Cd)Pyrene	100		50	75	<MDL		20	41
Isophorone	<MDL		50	75	<MDL		20	41
N-Nitrosodi-N-Propylamine	<MDL		50	75	<MDL		20	41
N-Nitrosodimethylamine	<MDL		100	230	<MDL		60	120
N-Nitrosodiphenylamine	<MDL		50	75	<MDL		20	41
Naphthalene	<MDL		70	110	<MDL		40	62
Nitrobenzene	<MDL		50	75	<MDL		20	41
Pentachlorophenol	<MDL		50	75	<MDL		20	41
Phenanthrene	200		20	39	31		10	21
Phenol	<MDL		100	230	<MDL		60	120
Pyrene	360		20	39	51		10	21
4,4'-DDD	<MDL		10	19	<MDL		1	2.1
4,4'-DDE	<MDL		10	19	<MDL		1	2.1
4,4'-DDT	<MDL,G		10	19	<MDL,G		1	2.1
Aldrin	<MDL		10	19	<MDL		1	2.1
Alpha-BHC	<MDL		10	19	<MDL		1	2.1
Aroclor 1016	<MDL		100	190	<MDL		10	21
Aroclor 1221	<MDL		100	190	<MDL		10	21
Aroclor 1232	<MDL		100	190	<MDL		10	21
Aroclor 1242	<MDL		100	190	<MDL		10	21
Aroclor 1248	<MDL		100	190	54		10	21
Aroclor 1254	390		100	190	64		10	21
Aroclor 1260	320		100	190	40		10	21
Beta-BHC	<MDL		10	19	<MDL		1	2.1
Chlordane	<MDL		50	95	<MDL		5	10
Delta-BHC	<MDL		10	19	<MDL		1	2.1
Dieldrin	<MDL		10	19	<MDL		1	2.1
Endosulfan I	<MDL		10	19	<MDL		1	2.1
Endosulfan II	<MDL		10	19	<MDL		1	2.1
Endosulfan Sulfate	<MDL		10	19	<MDL		1	2.1
Endrin	<MDL		10	19	<MDL		1	2.1
Endrin Aldehyde	<MDL		10	19	<MDL		1	2.1
Gamma-BHC (Lindane)	<MDL		10	19	<MDL		1	2.1
Heptachlor	<MDL		10	19	<MDL		1	2.1
Heptachlor Epoxide	<MDL		10	19	<MDL		1	2.1
Methoxychlor	<MDL		50	95	<MDL		5	10
Toxaphene	<MDL		100	190	<MDL		10	21

1991 Core Samples (continued)

Section/Locator:	N Below Cap				LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:					May 30, 91			
Lab ID:					9101228			
Matrix:					SALTWTRSED			
% Solids:					44			
Parameters Dry Weight					SALTWTRSED			
METALS mg/Kg					81			
M.Code=CV								
Mercury	1.1				0.31			
M.Code=PE								
Aluminum	15000				3800			
Antimony	<MDL,G		7		<MDL,G		4	
Arsenic	20				<MDL		6	
Barium	61				14			
Beryllium	0.45				0.25			
Cadmium	0.45				<MDL		0.5	
Chromium	48	E			6.2	E		
Copper	66	B			5.1	B		
Iron	21000				8300			
Lead	68				4.9			
Nickel	48				4.9			
Selenium	<MDL		10		<MDL		6	
Silver	2				0.99			
Thallium	<MDL		50		<MDL		20	
Zinc	100	B			22	B		
CONVENTIONALS								
Particle Size in % phi								
p-1.00								
p+0.00								
p+1.00								
p+2.00								
p+3.00								
p+4.00								
p+5.00								
p+6.00								
p+7.00								
p+8.00								
p+9.00								
p+10.0								
p+11.0								
p+12.0								
Total Organic Carbon mg/Kg	48000		1000		8100		600	
FIELD DATA								
Sample Depth								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sediment Sampling Range Bottom	77.5				70			
Sediment Sampling Range Top	62.5				55			

1991 Core Samples (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids:	O Below Cap LTBC35				01 LTBC35			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
1,2,4-Trichlorobenzene	<MDL	10	22		<MDL	10	21	
1,2-Dichlorobenzene	<MDL	10	22		<MDL	10	21	
1,2-Diphenylhydrazine	<MDL	40	86		<MDL	40	82	
1,3-Dichlorobenzene	<MDL	10	22		<MDL	10	21	
1,4-Dichlorobenzene	<MDL,G	10	22		<MDL,G	10	21	
2,4,5-Trichlorophenol	<MDL	90	170		<MDL	90	160	
2,4,6-Trichlorophenol	<MDL	90	170		<MDL	90	160	
2,4-Dichlorophenol	<MDL	30	42		<MDL	20	40	
2,4-Dimethylphenol	<MDL	30	42		<MDL	20	40	
2,4-Dinitrophenol	<MDL	40	86		<MDL	40	82	
2,4-Dinitrotoluene	<MDL	9	17		<MDL	9	16	
2,6-Dinitrotoluene	<MDL	9	17		<MDL	9	16	
2-Chloronaphthalene	<MDL	10	22		<MDL	10	21	
2-Chlorophenol	<MDL	40	86		<MDL	40	82	
2-Methylnaphthalene	<MDL	40	64		<MDL	40	61	
2-Methylphenol	<MDL	30	42		<MDL	20	40	
2-Nitroaniline	<MDL	60	130		<MDL	60	120	
2-Nitrophenol	<MDL	30	42		<MDL	20	40	
3-Nitroaniline	<MDL	60	130		<MDL	60	120	
4,6-Dinitro-O-Cresol	<MDL	40	86		<MDL	40	82	
4-Bromophenyl Phenyl Ether	<MDL	6	13		<MDL	6	12	
4-Chloro-3-Methylphenol	<MDL	40	86		<MDL	40	82	
4-Chloroaniline	<MDL	40	86		<MDL	40	82	
4-Chlorophenyl Phenyl Ether	<MDL	10	22		<MDL	10	21	
4-Methylphenol	<MDL	30	42		<MDL	20	40	
4-Nitroaniline	<MDL	60	130		<MDL	60	120	
4-Nitrophenol	<MDL	40	86		<MDL	40	82	
Acenaphthene	49	9	17		<MDL	9	16	
Acenaphthylene	27	10	22		<MDL	10	21	
Aniline	<MDL	40	86		<MDL	40	82	
Anthracene	120	10	22		<MDL	10	21	
Benzidine	<MDL	500	1000		<MDL	500	980	
Benzo(a)anthracene	450	10	22		<MDL	10	21	
Benzo(a)pyrene	410	30	42		<MDL	20	40	
Benzo(b)fluoranthene	590	40	64		<MDL	40	61	
Benzo(g,h,i)perylene	140	30	42		<MDL	20	40	
Benzo(k)fluoranthene	420	40	64		<MDL	40	61	
Benzoic Acid	<MDL	60	130		<MDL	60	120	
Benzyl Alcohol	<MDL	30	42		<MDL	20	40	
Benzyl Butyl Phthalate	280	10	22		<MDL	10	21	
Bis(2-Chloroethoxy)Methane	<MDL	30	42		<MDL	20	40	
Bis(2-Chloroethyl)Ether	<MDL	30	42		<MDL	20	40	
Bis(2-Chloroisopropyl)Ether	<MDL	40	86		<MDL	40	82	
Bis(2-Ethylhexyl)Phthalate	1500	10	22		<MDL	10	21	
Chrysene	650	10	22		<MDL	10	21	
Di-N-Butyl Phthalate	<MDL,B	30	42		<MDL,B	20	40	
Di-N-Octyl Phthalate	<MDL	10	22		<MDL	10	21	
Dibenzo(a,h)anthracene	<MDL	40	64		<MDL	40	61	
Dibenzofuran	<MDL	30	42		<MDL	20	40	
Diethyl Phthalate	<MDL	30	42		<MDL	20	40	
Dimethyl Phthalate	<MDL	6	13		<MDL	6	12	
Fluoranthene	490	10	26		<MDL	10	24	
Fluorene	45	10	22		<MDL	10	21	
Hexachlorobenzene	<MDL	10	22		<MDL	10	21	
Hexachlorobutadiene	<MDL	30	42		<MDL	20	40	

1991 Core Samples (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids:	O Below Cap LTBC35				O1 LTBC35			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Hexachlorocyclopentadiene	<MDL		30	42	<MDL		20	40
Hexachloroethane	<MDL		30	42	<MDL		20	40
Indeno(1,2,3-Cd)Pyrene	140		30	42	<MDL		20	40
Isophorone	<MDL		30	42	<MDL		20	40
N-Nitrosodi-N-Propylamine	<MDL		30	42	<MDL		20	40
N-Nitrosodimethylamine	<MDL		60	130	<MDL		60	120
N-Nitrosodiphenylamine	<MDL		30	42	<MDL		20	40
Naphthalene	<MDL		40	64	<MDL		40	61
Nitrobenzene	<MDL		30	42	<MDL		20	40
Pentachlorophenol	<MDL		30	42	<MDL		20	40
Phenanthrene	470		10	22	<MDL		10	21
Phenol	<MDL		60	130	<MDL		60	120
Pyrene	620		10	22	<MDL		10	21
4,4'-DDD	<MDL		5	11	<MDL		1	2.1
4,4'-DDE	<MDL		5	11	<MDL		1	2.1
4,4'-DDT	<MDL,G		5	11	<MDL,G		1	2.1
Aldrin	<MDL		5	11	<MDL		1	2.1
Alpha-BHC	<MDL		5	11	<MDL		1	2.1
Aroclor 1016	<MDL		50	110	<MDL		10	21
Aroclor 1221	<MDL		50	110	<MDL		10	21
Aroclor 1232	<MDL		50	110	<MDL		10	21
Aroclor 1242	<MDL		50	110	<MDL		10	21
Aroclor 1248	140		50	110	<MDL		10	21
Aroclor 1254	230		50	110	<MDL		10	21
Aroclor 1260	120		50	110	<MDL		10	21
Beta-BHC	<MDL		5	11	<MDL		1	2.1
Chlordane	<MDL		30	54	<MDL		5	10
Delta-BHC	<MDL		5	11	<MDL		1	2.1
Dieldrin	<MDL		5	11	<MDL		1	2.1
Endosulfan I	<MDL		5	11	<MDL		1	2.1
Endosulfan II	<MDL		5	11	<MDL		1	2.1
Endosulfan Sulfate	<MDL		5	11	<MDL		1	2.1
Endrin	<MDL		5	11	<MDL		1	2.1
Endrin Aldehyde	<MDL		5	11	<MDL		1	2.1
Gamma-BHC (Lindane)	<MDL		5	11	<MDL		1	2.1
Heptachlor	<MDL		5	11	<MDL		1	2.1
Heptachlor Epoxide	<MDL		5	11	<MDL		1	2.1
Methoxychlor	<MDL		30	54	<MDL		5	10
Toxaphene	<MDL		50	110	<MDL		10	21

1991 Core Samples (continued)

Section/Locator:	O Below Cap LTBC35				01 LTBC35			
	May 30, 91 9101233 SALTWTRSED 78				May 30, 91 9101234 SALTWTRSED 82			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
METALS mg/Kg								
M. Code=CV								
Mercury	0.55				0.024			
M. Code=PE								
Aluminum	11000				8700			
Antimony	<MDL,G		4		<MDL,G		4	
Arsenic	13				9.8			
Barium	58				37			
Beryllium	0.26				0.24			
Cadmium	1				<MDL		0.4	
Chromium	46	E			13	E		
Copper	63	B			8.5	B		
Iron	15000				17000			
Lead	120				3.7			
Nickel	38				9.8			
Selenium	<MDL		6		<MDL		6	
Silver	5.1				<MDL		0.4	
Thallium	<MDL		30		<MDL		20	
Zinc	120	B			44	B		
CONVENTIONALS								
Particle Size in % phi								
p-1.00								
p+0.00								
p+1.00								
p+2.00								
p+3.00								
p+4.00								
p+5.00								
p+6.00								
p+7.00								
p+8.00								
p+9.00								
p+10.0								
p+11.0								
p+12.0								
Total Organic Carbon mg/Kg	10000		600		800		600	
FIELD DATA								
Sample Depth								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sediment Sampling Range Bottom	52.5				67.7			
Sediment Sampling Range Top	37.5				62.5			

1991 Core Samples (continued)

Section/Locator:	P Below Cap				LTBD24				P1	LTBD24			
	May 30, 91	9101238	SALTWTRSED	72	May 30, 91	9101239	SALTWTRSED	85		May 30, 91	9101239	SALTWTRSED	85
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	
ORGANICS µg/Kg													
1,2,4-Trichlorobenzene	<MDL		10	24	<MDL		10	20	<MDL		10	20	
1,2-Dichlorobenzene	<MDL		10	24	<MDL		10	20	<MDL		10	20	
1,2-Diphenylhydrazine	<MDL		40	93	<MDL		40	79	<MDL		40	79	
1,3-Dichlorobenzene	<MDL		10	24	<MDL		10	20	<MDL		10	20	
1,4-Dichlorobenzene	<MDL,G		10	24	<MDL,G		10	20	<MDL,G		10	20	
2,4,5-Trichlorophenol	<MDL		100	180	<MDL		80	150	<MDL		80	150	
2,4,6-Trichlorophenol	<MDL		100	180	<MDL		80	150	<MDL		80	150	
2,4-Dichlorophenol	<MDL		30	46	<MDL		20	39	<MDL		20	39	
2,4-Dimethylphenol	<MDL		30	46	<MDL		20	39	<MDL		20	39	
2,4-Dinitrophenol	<MDL		40	93	<MDL		40	79	<MDL		40	79	
2,4-Dinitrotoluene	<MDL		10	18	<MDL		8	15	<MDL		8	15	
2,6-Dinitrotoluene	<MDL		10	18	<MDL		8	15	<MDL		10	20	
2-Chloronaphthalene	<MDL		10	24	<MDL		10	20	<MDL		10	20	
2-Chlorophenol	<MDL		40	93	<MDL		40	79	<MDL		40	79	
2-Methylnaphthalene	<MDL		40	69	<MDL		40	59	<MDL		40	59	
2-Methylphenol	<MDL		30	46	<MDL		20	39	<MDL		20	39	
2-Nitroaniline	<MDL		70	140	<MDL		60	120	<MDL		60	120	
2-Nitrophenol	<MDL		30	46	<MDL		20	39	<MDL		20	39	
3-Nitroaniline	<MDL		70	140	<MDL		60	120	<MDL		60	120	
4,6-Dinitro-O-Cresol	<MDL		40	93	<MDL		40	79	<MDL		40	79	
4-Bromophenyl Phenyl Ether	<MDL		7	14	<MDL		6	12	<MDL		6	12	
4-Chloro-3-Methylphenol	<MDL		40	93	<MDL		40	79	<MDL		40	79	
4-Chloroaniline	<MDL		40	93	<MDL		40	79	<MDL		40	79	
4-Chlorophenyl Phenyl Ether	<MDL		10	24	<MDL		10	20	<MDL		10	20	
4-Methylphenol	<MDL		30	46	<MDL		20	39	<MDL		20	39	
4-Nitroaniline	<MDL		70	140	<MDL		60	120	<MDL		60	120	
4-Nitrophenol	<MDL		40	93	<MDL		40	79	<MDL		40	79	
Acenaphthene	<MDL		10	18	<MDL		8	15	<MDL		8	15	
Acenaphthylene	<MDL		10	24	<MDL		10	20	<MDL		10	20	
Aniline	<MDL		40	93	<MDL		40	79	<MDL		40	79	
Anthracene	54		10	24	<MDL		10	20	<MDL		10	20	
Benzidine	<MDL		600	1100	<MDL		500	940	<MDL		500	940	
Benzo(a)anthracene	180		10	24	24		10	20	<MDL		10	20	
Benzo(a)pyrene	170		30	46	<MDL		20	39	<MDL		20	39	
Benzo(b)fluoranthene	260		40	69	<MDL		40	59	<MDL		40	59	
Benzo(g,h,i)perylene	<MDL		30	46	<MDL		20	39	<MDL		20	39	
Benzo(k)fluoranthene	190		40	69	<MDL		40	59	<MDL		40	59	
Benzoic Acid	<MDL		70	140	<MDL		60	120	<MDL		60	120	
Benzyl Alcohol	<MDL		30	46	<MDL		20	39	<MDL		20	39	
Benzyl Butyl Phthalate	<MDL		10	24	<MDL		10	20	<MDL		10	20	
Bis(2-Chloroethoxy)Methane	<MDL		30	46	<MDL		20	39	<MDL		20	39	
Bis(2-Chloroethyl)Ether	<MDL		30	46	<MDL		20	39	<MDL		20	39	
Bis(2-Chloroisopropyl)Ether	<MDL		40	93	<MDL		40	79	<MDL		40	79	
Bis(2-Ethylhexyl)Phthalate	2800		10	24	<MDL		10	20	<MDL		10	20	
Chrysene	220		10	24	24		10	20	<MDL		10	20	
Di-N-Butyl Phthalate	190	B	30	46	<MDL,B		20	39	<MDL,B		20	39	
Di-N-Octyl Phthalate	<MDL		10	24	<MDL		10	20	<MDL		10	20	
Dibenzo(a,h)anthracene	<MDL		40	69	<MDL		40	59	<MDL		40	59	
Dibenzofuran	<MDL		30	46	<MDL		20	39	<MDL		20	39	
Diethyl Phthalate	<MDL		30	46	<MDL		20	39	<MDL		20	39	
Dimethyl Phthalate	<MDL		7	14	<MDL		6	12	<MDL		6	12	
Fluoranthene	360		10	28	51		10	24	<MDL		10	20	
Fluorene	<MDL		10	24	<MDL		10	20	<MDL		10	20	
Hexachlorobenzene	<MDL		10	24	<MDL		10	20	<MDL		10	20	
Hexachlorobutadiene	<MDL		30	46	<MDL		20	39	<MDL		20	39	

1991 Core Samples (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids: Parameters Dry Weight	P Below Cap LTBD24				P1 LTBD24			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Hexachlorocyclopentadiene		<MDL	30	46		<MDL	20	39
Hexachloroethane		<MDL	30	46		<MDL	20	39
Indeno(1,2,3-Cd)Pyrene	56		30	46		<MDL	20	39
Isophorone		<MDL	30	46		<MDL	20	39
N-Nitrosodi-N-Propylamine		<MDL	30	46		<MDL	20	39
N-Nitrosodimethylamine		<MDL	70	140		<MDL	60	120
N-Nitrosodiphenylamine		<MDL	30	46		<MDL	20	39
Naphthalene		<MDL	40	69		<MDL	40	59
Nitrobenzene		<MDL	30	46		<MDL	20	39
Pentachlorophenol		<MDL	30	46		<MDL	20	39
Phenanthrene	170		10	24	48		10	20
Phenol		<MDL	70	140		<MDL	60	120
Pyrene	390		10	24	35		10	20
4,4'-DDD		<MDL	10	24		<MDL	1	2
4,4'-DDE		<MDL	10	24		<MDL	1	2
4,4'-DDT		<MDL,G	10	24		<MDL,G	1	2
Aldrin		<MDL	10	24		<MDL	1	2
Alpha-BHC		<MDL	10	24		<MDL	1	2
Aroclor 1016		<MDL	100	240		<MDL	10	20
Aroclor 1221		<MDL	100	240		<MDL	10	20
Aroclor 1232		<MDL	100	240		<MDL	10	20
Aroclor 1242		<MDL	100	240		<MDL	10	20
Aroclor 1248	1300		100	240		<MDL	10	20
Aroclor 1254	2100		100	240		<MDL	10	20
Aroclor 1260	1500		100	240		<MDL	10	20
Beta-BHC		<MDL	10	24		<MDL	1	2
Chlordane		<MDL	60	120		<MDL	5	9.8
Delta-BHC		<MDL	10	24		<MDL	1	2
Dieldrin		<MDL	10	24		<MDL	1	2
Endosulfan I		<MDL	10	24		<MDL	1	2
Endosulfan II		<MDL	10	24		<MDL	1	2
Endosulfan Sulfate		<MDL	10	24		<MDL	1	2
Endrin		<MDL	10	24		<MDL	1	2
Endrin Aldehyde		<MDL	10	24		<MDL	1	2
Gamma-BHC (Lindane)		<MDL	10	24		<MDL	1	2
Heptachlor		<MDL	10	24		<MDL	1	2
Heptachlor Epoxide		<MDL	10	24		<MDL	1	2
Methoxychlor		<MDL	60	120		<MDL	5	9.8
Toxaphene		<MDL	100	240		<MDL	10	20

1991 Core Samples (continued)

Section/Locator:	P Below Cap				P1			
	LTBD24	May 30, 91	9101238	SALTWTRSED	LTBD24	May 30, 91	9101239	SALTWTRSED
Sampled:				72				85
Lab ID:								
Matrix:								
% Solids:								
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
METALS mg/Kg								
M. Code=CV								
Mercury	1.3				0.024			
M. Code=PE								
Aluminum	17000				9300			
Antimony	<MDL,G		6		<MDL,G		4	
Arsenic	14				9.4			
Barium	110				36			
Beryllium	0.42				0.24			
Cadmium	1.4				<MDL		0.2	
Chromium	60	E			13	E		
Copper	71	B			11	B		
Iron	28000				20000			
Lead	150				5.9			
Nickel	51				12			
Selenium	<MDL		7		<MDL		6	
Silver	12				<MDL		0.4	
Thallium	28				<MDL		20	
Zinc	190	B			47	B		
CONVENTIONALS								
Particle Size in % phi								
p-1.00								
p+0.00								
p+1.00								
p+2.00								
p+3.00								
p+4.00								
p+5.00								
p+6.00								
p+7.00								
p+8.00								
p+9.00								
p+10.0								
p+11.0								
p+12.0								
Total Organic Carbon mg/Kg	19000		700		1800		600	
FIELD DATA								
Sample Depth								
Sample Function	SAMP							
Sample Start Time								
Sediment Sampling Range Bottom								
Sediment Sampling Range Top	45							

1992 Core Samples

Section/Locator:	O Below Cap LTBC35				O1 LTBC35			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
Bis(2-Chloroethyl)Ether	<MDL	10	23		<MDL	10	20	
1,2,4-Trichlorobenzene	<MDL	10	23		<MDL	10	20	
1,2-Dichlorobenzene	<MDL	10	23		<MDL	10	20	
1,2-Diphenylhydrazine	<MDL	40	89		<MDL	30	78	
1,3-Dichlorobenzene	<MDL	10	23		<MDL	10	20	
1,4-Dichlorobenzene	<MDL	10	23		<MDL	10	20	
2,4,5-Trichlorophenol	<MDL	90	170		<MDL	80	150	
2,4,6-Trichlorophenol	<MDL	90	170		<MDL	80	150	
2,4-Dichlorophenol	<MDL	30	44		<MDL	20	38	
2,4-Dimethylphenol	<MDL	30	44		<MDL	20	38	
2,4-Dinitrophenol	<MDL	40	89		<MDL	30	78	
2,4-Dinitrotoluene	<MDL	9	17		<MDL	8	15	
2,6-Dinitrotoluene	<MDL	9	17		<MDL	8	15	
2-Chloronaphthalene	<MDL	10	23		<MDL	10	20	
2-Chlorophenol	<MDL	40	89		<MDL	30	78	
2-Methylnaphthalene	<MDL	40	67		<MDL	30	58	
2-Methylphenol	<MDL	30	44		<MDL	20	38	
2-Nitroaniline	<MDL	70	130		<MDL	60	120	
2-Nitrophenol	<MDL	30	44		<MDL	20	38	
3,3'-Dichlorobenzidine	<MDL	30	44		<MDL	20	38	
3-Nitroaniline	<MDL	70	130		<MDL	60	120	
4,6-Dinitro-O-Cresol	<MDL	40	89		<MDL	30	78	
4-Bromophenyl Phenyl Ether	<MDL	7	13		<MDL	6	12	
4-Chloro-3-Methylphenol	<MDL	40	89		<MDL	30	78	
4-Chloroaniline	<MDL	40	89		<MDL	30	78	
4-Chlorophenyl Phenyl Ether	<MDL	10	23		<MDL	10	20	
4-Methylphenol	<MDL	30	44		<MDL	20	38	
4-Nitroaniline	<MDL	70	130		<MDL	60	120	
4-Nitrophenol	<MDL	40	89		<MDL	30	78	
Acenaphthene	31	9	17		<MDL	8	15	
Acenaphthylene	27	10	23		<MDL	10	20	
Aniline	<MDL	40	89		<MDL	30	78	
Anthracene	240	10	23		<MDL	10	20	
Benzidine	<MDL	500	1100		<MDL	500	930	
Benzo(a)anthracene	390	10	23		<MDL	10	20	
Benzo(a)pyrene	470	30	44		<MDL	20	38	
Benzo(b)fluoranthene	760	40	67		<MDL	30	58	
Benzo(g,h,i)perylene	<MDL	30	44		<MDL	20	38	
Benzo(k)fluoranthene	670	40	67		<MDL	30	58	
Benzoic Acid	<MDL	70	130		<MDL	60	120	
Benzyl Alcohol	<MDL	30	44		<MDL	20	38	
Benzyl Butyl Phthalate	97	10	23		<MDL	10	20	
Bis(2-Chloroethoxy)Methane	<MDL	30	44		<MDL	20	38	
Bis(2-Chloroisopropyl)Ether	<MDL	40	89		<MDL	30	78	
Bis(2-Ethylhexyl)Phthalate	1300	10	23		<MDL	10	20	
Carbazole	150	30	44		<MDL	20	38	
Chrysene	520	10	23		<MDL	10	20	
Coprostanol	<MDL	70	130		<MDL	60	120	
Di-N-Butyl Phthalate	<MDL,B	30	44		<MDL,B	20	38	
Di-N-Octyl Phthalate	<MDL	10	23		<MDL	10	20	
Dibenzo(a,h)anthracene	<MDL	40	67		<MDL	30	58	
Dibenzofuran	<MDL	30	44		<MDL	20	38	
Diethyl Phthalate	<MDL	30	44		<MDL	20	38	
Dimethyl Phthalate	<MDL	7	13		<MDL	6	12	
Fluoranthene	760	10	27		<MDL	10	23	

1992 Core Samples (continued)

Section/Locator:	0 Below Cap LTBC35				01 LTBC35			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Fluorene	37		10	23	<MDL		10	20
Hexachlorobenzene		<MDL	10	23	<MDL		10	20
Hexachlorobutadiene		<MDL	30	44	<MDL		20	38
Hexachlorocyclopentadiene		<MDL	30	44	<MDL		20	38
Hexachloroethane		<MDL	30	44	<MDL		20	38
Indeno(1,2,3-Cd)Pyrene		<MDL	30	44	<MDL		20	38
Isophorone		<MDL	30	44	<MDL		20	38
N-Nitrosodi-N-Propylamine		<MDL	30	44	<MDL		20	38
N-Nitrosodimethylamine		<MDL	70	130	<MDL		60	120
N-Nitrosodiphenylamine		<MDL	30	44	<MDL		20	38
Naphthalene		<MDL	40	67	<MDL		30	58
Nitrobenzene		<MDL	30	44	<MDL		20	38
Pentachlorophenol		<MDL	30	44	<MDL		20	38
Phenanthrene	440		10	23	<MDL		10	20
Phenol		<MDL	70	130	<MDL		60	120
Pyrene	560		10	23	<MDL		10	20
Gamma-BHC (Lindane)		<MDL	2	4.4	<MDL		2	3.8
4,4'-DDD		<MDL	2	4.4	<MDL		2	3.8
4,4'-DDE		<MDL	2	4.4	<MDL		2	3.8
4,4'-DDT		<MDL,G	2	4.4	<MDL,G		2	3.8
Aldrin		<MDL	2	4.4	<MDL		2	3.8
Alpha-BHC		<MDL	2	4.4	<MDL		2	3.8
Aroclor 1016		<MDL	20	44	<MDL		20	38
Aroclor 1221		<MDL	20	44	<MDL		20	38
Aroclor 1232		<MDL	20	44	<MDL		20	38
Aroclor 1242		<MDL	20	44	<MDL		20	38
Aroclor 1248	150		20	44	<MDL		20	38
Aroclor 1254	69		20	44	<MDL		20	38
Aroclor 1260	110		20	44	<MDL		20	38
Beta-BHC		<MDL	2	4.4	<MDL		2	3.8
Chlordane		<MDL	10	23	<MDL		10	20
Delta-BHC		<MDL	2	4.4	<MDL		2	3.8
Dieldrin		<MDL	2	4.4	<MDL		2	3.8
Endosulfan I		<MDL	2	4.4	<MDL		2	3.8
Endosulfan II		<MDL	2	4.4	<MDL		2	3.8
Endosulfan Sulfate		<MDL	2	4.4	<MDL		2	3.8
Endrin		<MDL	2	4.4	<MDL		2	3.8
Endrin Aldehyde		<MDL	2	4.4	<MDL		2	3.8
Heptachlor		<MDL	2	4.4	<MDL		2	3.8
Heptachlor Epoxide		<MDL	2	4.4	<MDL		2	3.8
Methoxychlor		<MDL	10	23	<MDL		10	20

1992 Core Samples (continued)

Section/Locator:	O Below Cap LTBC35 May 19, 92 9201189 SALTWTRSED 75				O1 LTBC35 May 19, 92 9201190 SALTWTRSED 86			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Toxaphene	<MDL		20	44	<MDL		20	38
METALS mg/Kg								
M.Code=CV								
Mercury	0.37				0.023			
M.Code=PE								
Aluminum	12000	B			8700	B		
Antimony	2.7	E,G			1.2	E,G		
Arsenic	12				7			
Barium	52				30			
Beryllium	0.31				0.23			
Cadmium	0.84	L			0.093	L		
Chromium	32				11			
Copper	48	B			12	B		
Iron	16000	B			15000	B		
Lead	81	E,B			3.5	E,B		
Nickel	31				11			
Selenium	<MDL		4		<MDL		2	
Silver	3.6				0.35			
Thallium	11				10			
Zinc	91	B			41	B		
CONVENTIONALS								
Particle Size in % phi								
p-1.00					9.1	E	0.1	
p+0.00					8.9	E	0.1	
p+1.00					37	E	0.1	
p+2.00					45	E	0.1	
p+3.00					4.2	E	0.1	
p+4.00					0.36	E	0.1	
p+5.00					0.23	E	0.1	
p+6.00					0.36	E	0.1	
p+7.00					<MDL,E		0.1	
p+8.00					<MDL,E		0.1	
p+9.00					<MDL,E		0.1	
p+10.0					<MDL,E		0.1	
p+11.0					<MDL,E		0.1	
p+12.0					0.66	E	0.1	
Total Organic Carbon mg/Kg	33000		700		14000		600	
FIELD DATA								
Sample Depth								
Sediment Type								
Vertical Distance								
Vertical Distance								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sampling Range Bottom	10				25			
Sampling Range Top	0				10			

1992 Core Samples (continued)

Section/Locator:	02 LTBC35				03 LTBC35				04 LTBC35			
	Sampled:	May 19, 92 9201191			Sampled:	May 19, 92 9201192			Sampled:	May 19, 92 9201193		
Lab ID:	SALTWTRSED 87			Matrix:	SALTWTRSED 82			% Solids:	SALTWTRSED 79			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg												
Bis(2-Chloroethyl)Ether	<MDL	10	20		<MDL	10	21		<MDL	10	22	
1,2,4-Trichlorobenzene	<MDL	10	20		<MDL	10	21		<MDL	10	22	
1,2-Dichlorobenzene	<MDL	10	20		<MDL	10	21		<MDL	10	22	
1,2-Diphenylhydrazine	<MDL	30	77		<MDL	40	82		<MDL	40	85	
1,3-Dichlorobenzene	<MDL	10	20		<MDL	10	21		<MDL	10	22	
1,4-Dichlorobenzene	<MDL	10	20		<MDL	10	21		<MDL	10	22	
2,4,5-Trichlorophenol	<MDL	80	150		<MDL	90	160		<MDL	90	160	
2,4,6-Trichlorophenol	<MDL	80	150		<MDL	90	160		<MDL	90	160	
2,4-Dichlorophenol	<MDL	20	38		<MDL	20	40		<MDL	30	42	
2,4-Dimethylphenol	<MDL	20	38		<MDL	20	40		<MDL	30	42	
2,4-Dinitrophenol	<MDL	30	77		<MDL	40	82		<MDL	40	85	
2,4-Dinitrotoluene	<MDL	8	15		<MDL	9	16		<MDL	9	16	
2,6-Dinitrotoluene	<MDL	8	15		<MDL	9	16		<MDL	9	16	
2-Chloronaphthalene	<MDL	10	20		<MDL	10	21		<MDL	10	22	
2-Chlorophenol	<MDL	30	77		<MDL	40	82		<MDL	40	85	
2-Methylnaphthalene	<MDL	30	57		<MDL	40	61		<MDL	40	63	
2-Methylphenol	<MDL	20	38		<MDL	20	40		<MDL	30	42	
2-Nitroaniline	<MDL	60	110		<MDL	60	120		<MDL	60	130	
2-Nitrophenol	<MDL	20	38		<MDL	20	40		<MDL	30	42	
3,3'-Dichlorobenzidine	<MDL	20	38		<MDL	20	40		<MDL	30	42	
3-Nitroaniline	<MDL	60	110		<MDL	60	120		<MDL	60	130	
4,6-Dinitro-O-Cresol	<MDL	30	77		<MDL	40	82		<MDL	40	85	
4-Bromophenyl Phenyl Ether	<MDL	6	11		<MDL	6	12		<MDL	6	13	
4-Chloro-3-Methylphenol	<MDL	30	77		<MDL	40	82		<MDL	40	85	
4-Chloroaniline	<MDL	30	77		<MDL	40	82		<MDL	40	85	
4-Chlorophenyl Phenyl Ether	<MDL	10	20		<MDL	10	21		<MDL	10	22	
4-Methylphenol	<MDL	20	38		<MDL	20	40		<MDL	30	42	
4-Nitroaniline	<MDL	60	110		<MDL	60	120		<MDL	60	130	
4-Nitrophenol	<MDL	30	77		<MDL	40	82		<MDL	40	85	
Acenaphthene	<MDL	8	15		<MDL	9	16		<MDL	9	16	
Acenaphthylene	<MDL	10	20		<MDL	10	21		<MDL	10	22	
Aniline	<MDL	30	77		<MDL	40	82		<MDL	40	85	
Anthracene	<MDL	10	20		<MDL	10	21		<MDL	10	22	
Benzidine	<MDL	500	920		<MDL	500	980		<MDL	500	1000	
Benzo(a)anthracene	<MDL	10	20		<MDL	10	21	39	<MDL	10	22	
Benzo(a)pyrene	<MDL	20	38		<MDL	20	40	46	<MDL	30	42	
Benzo(b)fluoranthene	<MDL	30	57		<MDL	40	61	50	<MDL	40	63	
Benzo(g,h,i)perylene	<MDL	20	38		<MDL	20	40		<MDL	30	42	
Benzo(k)fluoranthene	<MDL	30	57		<MDL	40	61		<MDL	40	63	
Benzoic Acid	<MDL	60	110		<MDL	60	120		<MDL	60	130	
Benzyl Alcohol	<MDL	20	38		<MDL	20	40		<MDL	30	42	
Benzyl Butyl Phthalate	<MDL	10	20		<MDL	10	21		<MDL	10	22	
Bis(2-Chloroethoxy)Methane	<MDL	20	38		<MDL	20	40		<MDL	30	42	
Bis(2-Chloroisopropyl)Ether	<MDL	30	77		<MDL	40	82		<MDL	40	85	
Bis(2-Ethylhexyl)Phthalate	<MDL	10	20		<MDL	10	21		<MDL	10	22	
Carbazole	<MDL	20	38		<MDL	20	40		<MDL	30	42	
Chrysene	<MDL	10	20		<MDL	10	21	80	<MDL	10	22	
Coprostanol	<MDL	60	110		<MDL	60	120		<MDL	60	130	
Di-N-Butyl Phthalate	<MDL,B	20	38		<MDL,B	20	40		<MDL,B	30	42	
Di-N-Octyl Phthalate	<MDL	10	20		<MDL	10	21		<MDL	10	22	
Dibenzo(a,h)anthracene	<MDL	30	57		<MDL	40	61		<MDL	40	63	
Dibenzofuran	<MDL	20	38		<MDL	20	40		<MDL	30	42	
Diethyl Phthalate	<MDL	20	38		<MDL	20	40		<MDL	30	42	
Dimethyl Phthalate	<MDL	6	11		<MDL	6	12		<MDL	6	13	
Fluoranthene	<MDL	10	23		<MDL	10	24	160	<MDL	10	25	

1992 Core Samples (continued)

Section/Locator:	O2 LTBC35				O3 LTBC35				O4 LTBC35			
Sampled:	May 19, 92 9201191				May 19, 92 9201192				May 19, 92 9201193			
Lab ID:												
Matrix:	SALTWTRSED 87				SALTWTRSED 82				SALTWTRSED 79			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Fluorene	<MDL		10	20	<MDL		10	21	<MDL		10	22
Hexachlorobenzene	<MDL		10	20	<MDL		10	21	<MDL		10	22
Hexachlorobutadiene	<MDL		20	38	<MDL		20	40	<MDL		30	42
Hexachlorocyclopentadiene	<MDL		20	38	<MDL		20	40	<MDL		30	42
Hexachloroethane	<MDL		20	38	<MDL		20	40	<MDL		30	42
Indeno(1,2,3-Cd)Pyrene	<MDL		20	38	<MDL		20	40	<MDL		30	42
Isophorone	<MDL		20	38	<MDL		20	40	<MDL		30	42
N-Nitrosodi-N-Propylamine	<MDL		20	38	<MDL		20	40	<MDL		30	42
N-Nitrosodimethylamine	<MDL		60	110	<MDL		60	120	<MDL		60	130
N-Nitrosodiphenylamine	<MDL		20	38	<MDL		20	40	<MDL		30	42
Naphthalene	<MDL		30	57	<MDL		40	61	<MDL		40	63
Nitrobenzene	<MDL		20	38	<MDL		20	40	<MDL		30	42
Pentachlorophenol	<MDL		20	38	<MDL		20	40	<MDL		30	42
Phenanthrene	<MDL		10	20	<MDL		10	21	59		10	22
Phenol	<MDL		60	110	<MDL		60	120	<MDL		60	130
Pyrene	<MDL		10	20	<MDL		10	21	72		10	22
Gamma-BHC (Lindane)	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
4,4'-DDD	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
4,4'-DDE	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
4,4'-DDT	<MDL,G		2	3.8	<MDL,G		2	4	<MDL,G		2	4.2
Aldrin	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Alpha-BHC	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Aroclor 1016	<MDL		20	38	<MDL		20	40	<MDL		20	42
Aroclor 1221	<MDL		20	38	<MDL		20	40	<MDL		20	42
Aroclor 1232	<MDL		20	38	<MDL		20	40	<MDL		20	42
Aroclor 1242	<MDL		20	38	<MDL		20	40	<MDL		20	42
Aroclor 1248	<MDL		20	38	<MDL		20	40	<MDL		20	42
Aroclor 1254	<MDL		20	38	<MDL		20	40	30	<RDL	20	42
Aroclor 1260	<MDL		20	38	<MDL		20	40	<MDL		20	42
Beta-BHC	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Chlordane	<MDL		10	20	<MDL		10	21	<MDL		10	22
Delta-BHC	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Dieldrin	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Endosulfan I	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Endosulfan II	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Endosulfan Sulfate	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Endrin	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Endrin Aldehyde	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Heptachlor	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Heptachlor Epoxide	<MDL		2	3.8	<MDL		2	4	<MDL		2	4.2
Methoxychlor	<MDL		10	20	<MDL		10	21	<MDL		10	22

1992 Core Samples (continued)

Section/Locator:	02 LTBC35				03 LTBC35				04 LTBC35			
Sampled:	May 19, 92 9201191				May 19, 92 9201192				May 19, 92 9201193			
Lab ID:												
Matrix:	SALTWTRSED 87				SALTWTRSED 82				SALTWTRSED 79			
% Solids:												
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Toxaphene		<MDL	20	38		<MDL	20	40		<MDL	20	42
METALS mg/Kg												
M.Code=CV												
Mercury		<MDL	0.02		0.024				0.063			
M.Code=PE												
Aluminum	8500	B			9500	B			9500	B		
Antimony	1.1	E,G			2.4	E,G			1.3	E,G		
Arsenic	8				7.3				6.3			
Barium	33				37				33			
Beryllium	0.23				0.24				0.25			
Cadmium	0.11	L			0.12	L			0.13	L		
Chromium	11				13				14			
Copper	11	B			12	B			14	B		
Iron	16000	B			16000	B			14000	B		
Lead	3.4	E,B			3.7	E,B			8	E,B		
Nickel	10				12				12			
Selenium		<MDL	1			<MDL	1			<MDL	1	
Silver	0.23				0.24				0.51			
Thallium	10				11				8.9			
Zinc	40	B			46	B			48	B		
CONVENTIONALS												
Particle Size in % phi												
p-1.00	2.7	E	0.1		1.1	E	0.1					
p+0.00	11	E	0.1		4.4	E	0.1					
p+1.00	43	E	0.1		41	E	0.1					
p+2.00	39	E	0.1		41	E	0.1					
p+3.00	2.4	E	0.1		8.8	E	0.1					
p+4.00	0.21	E	0.1		1.6	E	0.1					
p+5.00		<MDL,E	0.1		0.26	E	0.1					
p+6.00		<MDL,E	0.1		0.44	E	0.1					
p+7.00		<MDL,E	0.1		0.31	E	0.1					
p+8.00		<MDL,E	0.1			<MDL,E	0.1					
p+9.00		<MDL,E	0.1			<MDL,E	0.1					
p+10.0		<MDL,E	0.1			<MDL,E	0.1					
p+11.0		<MDL,E	0.1			<MDL,E	0.1					
p+12.0	1.3	E	0.1		1.3	E	0.1					
Total Organic Carbon mg/Kg	15000		600		7700		600		14000		600	
FIELD DATA												
Sample Depth												
Sediment Type												
Vertical Distance												
Vertical Distance												
Sample Function	SAMP				SAMP				SAMP			
Sample Start Time												
Sampling Range Bottom	40				55				67.5			
Sampling Range Top	25				40				57.5			

1992 Core Samples (continued)

Section/Locator:	O Below Cap Replicate LTBC35				O1 Replicate LTBC35				O2 Replicate LTBC35					
Sampled:	May 19, 92 9201194				May 19, 92 9201195				May 19, 92 9201196					
Lab ID:														
Matrix:	SALTWTRSED 75				SALTWTRSED 84				SALTWTRSED 85					
% Solids:	Parameters	Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS $\mu\text{g}/\text{Kg}$														
Bis(2-Chloroethyl)Ether		<MDL	10	23		<MDL	10	20		<MDL	10	20		
1,2,4-Trichlorobenzene		<MDL	10	23		<MDL	10	20		<MDL	10	20		
1,2-Dichlorobenzene		<MDL	10	23		<MDL	10	20		<MDL	10	20		
1,2-Diphenylhydrazine		<MDL	40	89		<MDL	40	80		<MDL	40	79		
1,3-Dichlorobenzene		<MDL	10	23		<MDL	10	20		<MDL	10	20		
1,4-Dichlorobenzene		<MDL	10	23		<MDL	10	20		<MDL	10	20		
2,4,5-Trichlorophenol		<MDL	90	170		<MDL	80	150		<MDL	80	150		
2,4,6-Trichlorophenol		<MDL	90	170		<MDL	80	150		<MDL	80	150		
2,4-Dichlorophenol		<MDL	30	44		<MDL	20	39		<MDL	20	39		
2,4-Dimethylphenol		<MDL	30	44		<MDL	20	39		<MDL	20	39		
2,4-Dinitrophenol		<MDL	40	89		<MDL	40	80		<MDL	40	79		
2,4-Dinitrotoluene		<MDL	9	17		<MDL	8	15		<MDL	8	15		
2,6-Dinitrotoluene		<MDL	9	17		<MDL	8	15		<MDL	8	15		
2-Chloronaphthalene		<MDL	10	23		<MDL	10	20		<MDL	10	20		
2-Chlorophenol		<MDL	40	89		<MDL	40	80		<MDL	40	79		
2-Methylnaphthalene		<MDL	40	67		<MDL	40	60		<MDL	40	59		
2-Methylphenol		<MDL	30	44		<MDL	20	39		<MDL	20	39		
2-Nitroaniline		<MDL	70	130		<MDL	60	120		<MDL	60	120		
2-Nitrophenol		<MDL	30	44		<MDL	20	39		<MDL	20	39		
3,3'-Dichlorobenzidine		<MDL	30	44		<MDL	20	39		<MDL	20	39		
3-Nitroaniline		<MDL	70	130		<MDL	60	120		<MDL	60	120		
4,6-Dinitro-O-Cresol		<MDL	40	89		<MDL	40	80		<MDL	40	79		
4-Bromophenyl Phenyl Ether		<MDL	7	13		<MDL	6	12		<MDL	6	12		
4-Chloro-3-Methylphenol		<MDL	40	89		<MDL	40	80		<MDL	40	79		
4-Chloroaniline		<MDL	40	89		<MDL	40	80		<MDL	40	79		
4-Chlorophenyl Phenyl Ether		<MDL	10	23		<MDL	10	20		<MDL	10	20		
4-Methylphenol		<MDL	30	44		<MDL	20	39		<MDL	20	39		
4-Nitroaniline		<MDL	70	130		<MDL	60	120		<MDL	60	120		
4-Nitrophenol		<MDL	40	89		<MDL	40	80		<MDL	40	79		
Acenaphthene	39	9	17		61	8	15			<MDL	8	15		
Acenaphthylene	25	10	23			<MDL	10	20		<MDL	10	20		
Aniline		<MDL	40	89		<MDL	40	80		<MDL	40	79		
Anthracene	190	10	23		110	10	20			<MDL	10	20		
Benzidine		<MDL	500	1100		<MDL	500	950			<MDL	500	940	
Benzo(a)anthracene	350	10	23		170	10	20			<MDL	10	20		
Benzo(a)pyrene	390	30	44		140	20	39			<MDL	20	39		
Benzo(b)fluoranthene	760	40	67		180	40	60			<MDL	40	59		
Benzo(g,h,i)perylene	190	30	44		130	20	39			<MDL	20	39		
Benzo(k)fluoranthene	320	40	67		87	40	60			<MDL	40	59		
Benzoic Acid		<MDL	70	130		<MDL	60	120			<MDL	60	120	
Benzyl Alcohol		<MDL	30	44		<MDL	20	39			<MDL	20	39	
Benzyl Butyl Phthalate	110	10	23			<MDL	10	20			<MDL	10	20	
Bis(2-Chloroethoxy)Methane		<MDL	30	44		<MDL	20	39			<MDL	20	39	
Bis(2-Chloroisopropyl)Ether		<MDL	40	89		<MDL	40	80			<MDL	40	79	
Bis(2-Ethylhexyl)Phthalate	1500	10	23			<MDL	10	20			<MDL	10	20	
Carbazole	100	30	44		85	20	39			<MDL	20	39		
Chrysene	470	10	23		190	10	20			<MDL	10	20		
Coprostanol		<MDL	70	130		<MDL	60	120			<MDL	60	120	
Di-N-Butyl Phthalate		<MDL,B	30	44		<MDL,B	20	39			<MDL,B	20	39	
Di-N-Octyl Phthalate		<MDL	10	23		<MDL	10	20			<MDL	10	20	
Dibenzo(a,h)anthracene	50	<RDL	40	67		<MDL	40	60			<MDL	40	59	
Dibenzofuran		<MDL	30	44		20	<RDL	20	39		<MDL	20	39	
Diethyl Phthalate		<MDL	30	44		<MDL	20	39			<MDL	20	39	
Dimethyl Phthalate		<MDL	7	13		<MDL	6	12			<MDL	6	12	
Fluoranthene		<MDL	10	27		480	10	24			<MDL	10	24	

1992 Core Samples (continued)

Section/Locator: Sampled: Lab ID: Matrix: % Solids: Parameters Dry Weight	O Below Cap Replicate LTBC35 May 19, 92 9201194 SALTWTRSED 75				O1 Replicate LTBC35 May 19, 92 9201195 SALTWTRSED 84				O2 Replicate LTBC35 May 19, 92 9201196 SALTWTRSED 85			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Fluorene	47		10	23	48		10	20	<MDL		10	20
Hexachlorobenzene	<MDL		10	23	<MDL		10	20	<MDL		10	20
Hexachlorobutadiene	<MDL		30	44	<MDL		20	39	<MDL		20	39
Hexachlorocyclopentadiene	<MDL		30	44	<MDL		20	39	<MDL		20	39
Hexachloroethane	<MDL		30	44	<MDL		20	39	<MDL		20	39
Indeno(1,2,3-Cd)Pyrene	170		30	44	98		20	39	<MDL		20	39
Isophorone	<MDL		30	44	<MDL		20	39	<MDL		20	39
N-Nitrosodi-N-Propylamine	<MDL		30	44	<MDL		20	39	<MDL		20	39
N-Nitrosodimethylamine	<MDL		70	130	<MDL		60	120	<MDL		60	120
N-Nitrosodiphenylamine	<MDL		30	44	<MDL		20	39	<MDL		20	39
Naphthalene	<MDL		40	67	<MDL		40	60	<MDL		40	59
Nitrobenzene	<MDL		30	44	<MDL		20	39	<MDL		20	39
Pentachlorophenol	<MDL		30	44	<MDL		20	39	<MDL		20	39
Phenanthrene	410		10	23	540		10	20	<MDL		10	20
Phenol	<MDL		70	130	<MDL		60	120	<MDL		60	120
Pyrene	570		10	23	570		10	20	<MDL		10	20
Gamma-BHC (Lindane)	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
4,4'-DDD	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
4,4'-DDE	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
4,4'-DDT	<MDL,G		2	4.4	<MDL,G		2	3.9	<MDL,G		2	3.9
Aldrin	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Alpha-BHC	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Aroclor 1016	<MDL		20	44	<MDL		20	39	<MDL		20	39
Aroclor 1221	<MDL		20	44	<MDL		20	39	<MDL		20	39
Aroclor 1232	<MDL		20	44	<MDL		20	39	<MDL		20	39
Aroclor 1242	<MDL		20	44	<MDL		20	39	<MDL		20	39
Aroclor 1248	150		20	44	<MDL		20	39	<MDL		20	39
Aroclor 1254	120		20	44	<MDL		20	39	<MDL		20	39
Aroclor 1260	79		20	44	<MDL		20	39	<MDL		20	39
Beta-BHC	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Chlordane	<MDL		10	23	<MDL		10	20	<MDL		10	20
Delta-BHC	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Dieldrin	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Endosulfan I	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Endosulfan II	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Endosulfan Sulfate	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Endrin	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Endrin Aldehyde	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Heptachlor	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Heptachlor Epoxide	<MDL		2	4.4	<MDL		2	3.9	<MDL		2	3.9
Methoxychlor	<MDL		10	23	<MDL		10	20	<MDL		10	20

1992 Core Samples (continued)

Section/Locator:	O Below Cap Replicate LTBC35				O1 Replicate LTBC35				O2 Replicate LTBC35			
Sampled:	May 19, 92 9201194				May 19, 92 9201195				May 19, 92 9201196			
Lab ID:	SALTWTRSED				SALTWTRSED				SALTWTRSED			
Matrix:	75				84				85			
% Solids:												
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Toxaphene		<MDL	20	44		<MDL	20	39		<MDL	20	39
METALS mg/Kg												
	M.Code=CV											
Mercury	0.33				0.024				<MDL		0.02	
	M.Code=PE											
Aluminum	12000	B			9600	B			8600	B		
Antimony	2.7	E,G			2.4	E,G			2.4	E,G		
Arsenic	12				7.1				7.1			
Barium	67				40				36			
Beryllium	0.33				0.25				0.24			
Cadmium	1.1	L			0.12	L			<MDL,L		0.1	
Chromium	37				14				13			
Copper	79	B			12	B			11	B		
Iron	15000	B			17000	B			15000	B		
Lead	120	E,B			8.6	E,B			3.5	E,B		
Nickel	33				13				12			
Selenium	<MDL	1			<MDL	2			<MDL		1	
Silver	5.1				0.36				0.24			
Thallium	9.3				12				9.4			
Zinc	120	B			45	B			46	B		
CONVENTIONALS												
Particle Size in % phi												
p-1.00					3.2	E	0.1		2.2	E	0.1	
p+0.00					9.1	E	0.1		7.4	E	0.1	
p+1.00					38	E	0.1		38	E	0.1	
p+2.00					44	E	0.1		47	E	0.1	
p+3.00					3.9	E	0.1		4.4	E	0.1	
p+4.00					0.34	E	0.1		0.33	E	0.1	
p+5.00					0.13	E	0.1		0.18	E	0.1	
p+6.00					0.1	E	0.1		0.17	E	0.1	
p+7.00					0.1	E	0.1		0.1	E	0.1	
p+8.00					<MDL,E	0.1			<MDL,E	0.1		
p+9.00					<MDL,E	0.1			<MDL,E	0.1		
p+10.0					<MDL,E	0.1			<MDL,E	0.1		
p+11.0					<MDL,E	0.1			<MDL,E	0.1		
p+12.0					1.1	E	0.1		0.96	E	0.1	
Total Organic Carbon mg/Kg	36000	700			13000		600		8400		600	
FIELD DATA												
Sample Depth												
Sediment Type												
Vertical Distance												
Vertical Distance												
Sample Function	SAMP				SAMP				SAMP			
Sample Start Time												
Sampling Range Bottom	40				55				63.5			
Sampling Range Top	25				40				56			

1992 Core Samples (continued)

Section/Locator:	N Below Cap				LTBC34				N1				LTBC34				N2				LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg																								
Bis(2-Chloroethyl)Ether	<MDL	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
1,2,4-Trichlorobenzene	<MDL	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
1,2-Dichlorobenzene	<MDL	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
1,2-Diphenylhydrazine	<MDL	40	94		<MDL	30	78		<MDL	40	81		<MDL	40	81		<MDL	40	81		<MDL	40	81	
1,3-Dichlorobenzene	<MDL	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
1,4-Dichlorobenzene	<MDL	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
2,4,5-Trichlorophenol	<MDL	100	180		<MDL	80	150		<MDL	80	160		<MDL	80	160		<MDL	80	160		<MDL	80	160	
2,4,6-Trichlorophenol	<MDL	100	180		<MDL	80	150		<MDL	80	150		<MDL	80	150		<MDL	80	150		<MDL	80	150	
2,4-Dichlorophenol	<MDL	30	46		<MDL	20	38		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40	
2,4-Dimethylphenol	<MDL	30	46		<MDL	20	38		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40	
2,4-Dinitrophenol	<MDL	40	94		<MDL	30	78		<MDL	40	81		<MDL	40	81		<MDL	40	81		<MDL	40	81	
2,4-Dinitrotoluene	<MDL	10	18		<MDL	8	15		<MDL	8	16		<MDL	8	16		<MDL	8	16		<MDL	8	16	
2,6-Dinitrotoluene	<MDL	10	18		<MDL	8	15		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
2-Chloronaphthalene	<MDL	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
2-Chlorophenol	<MDL	40	94		<MDL	30	78		<MDL	40	81		<MDL	40	81		<MDL	40	81		<MDL	40	81	
2-Methylnaphthalene	<MDL	40	70		<MDL	30	58		<MDL	40	60		<MDL	40	60		<MDL	40	60		<MDL	40	60	
2-Methylphenol	<MDL	30	46		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40		<MDL	20	40	
2-Nitroaniline	<MDL	70	140		<MDL	60	120		<MDL	60	120		<MDL	60	120		<MDL	60	120		<MDL	60	120	
2-Nitrophenol	<MDL	30	46		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40		<MDL	20	40	
3,3'-Dichlorobenzidine	<MDL	30	46		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40		<MDL	20	40	
3-Nitroaniline	<MDL	70	140		<MDL	60	120		<MDL	60	120		<MDL	60	120		<MDL	60	120		<MDL	60	120	
4,6-Dinitro-O-Cresol	<MDL	40	94		<MDL	30	78		<MDL	40	81		<MDL	40	81		<MDL	40	81		<MDL	40	81	
4-Bromophenyl Phenyl Ether	<MDL	7	14		<MDL	6	12		<MDL	6	12		<MDL	6	12		<MDL	6	12		<MDL	6	12	
4-Chloro-3-Methylphenol	<MDL	40	94		<MDL	30	78		<MDL	40	81		<MDL	40	81		<MDL	40	81		<MDL	40	81	
4-Chloroaniline	<MDL	40	94		<MDL	30	78		<MDL	40	81		<MDL	40	81		<MDL	40	81		<MDL	40	81	
4-Chlorophenyl Phenyl Ether	<MDL	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
4-Methylphenol	<MDL	30	46		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40		<MDL	20	40	
4-Nitroaniline	<MDL	70	140		<MDL	60	120		<MDL	60	120		<MDL	60	120		<MDL	60	120		<MDL	60	120	
4-Nitrophenol	<MDL	40	94		<MDL	30	78		<MDL	40	81		<MDL	40	81		<MDL	40	81		<MDL	40	81	
Acenaphthene	<MDL	10	18		<MDL	8	15		<MDL	8	16		<MDL	8	16		<MDL	8	16		<MDL	8	16	
Acenaphthylene	<MDL	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
Aniline	<MDL	40	94		<MDL	30	78		<MDL	40	81		<MDL	40	81		<MDL	40	81		<MDL	40	81	
Anthracene	59	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
Benzidine		<MDL	600	1100		<MDL	500	930		<MDL	500	960		<MDL	500	960		<MDL	500	960		<MDL	500	960
Benzo(a)anthracene	170	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
Benzo(a)pyrene	240	30	46		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40		<MDL	20	40	
Benzo(b)fluoranthene	460	40	70		<MDL	30	58		<MDL	30	58		<MDL	40	60		<MDL	40	60		<MDL	40	60	
Benzo(g,h,i)perylene	<MDL	30	46		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40		<MDL	20	40	
Benzo(k)fluoranthene	130	40	70		<MDL	30	58		<MDL	30	58		<MDL	40	60		<MDL	40	60		<MDL	40	60	
Benzoic Acid	<MDL	70	140		<MDL	60	120		<MDL	60	120		<MDL	60	120		<MDL	60	120		<MDL	60	120	
Benzyl Alcohol	<MDL	30	46		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40		<MDL	20	40	
Benzyl Butyl Phthalate	65	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
Bis(2-Chloroethoxy)Methane	<MDL	30	46		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40		<MDL	20	40	
Bis(2-Chloroisopropyl)Ether	<MDL	40	94		<MDL	30	78		<MDL	40	81		<MDL	40	81		<MDL	40	81		<MDL	40	81	
Bis(2-Ethylhexyl)Phthalate	1300	10	24	33		10	20		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40	
Carbazole	<MDL	30	46		<MDL	20	38		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40	
Chrysene	210	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
Coprostanol	<MDL	70	140		<MDL	60	120		<MDL	60	120		<MDL	60	120		<MDL	60	120		<MDL	60	120	
Di-N-Butyl Phthalate	<MDL,B	30	46		<MDL,B	20	38			20	<RDL,B	20	40											
Di-N-Octyl Phthalate	<MDL	10	24		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20		<MDL	10	20	
Dibenzo(a,h)anthracene	40	<RDL	40	70	<MDL	30	58		<MDL	40	60		<MDL	40	60		<MDL	40	60		<MDL	40	60	
Dibenzofuran	<MDL	30	46		<MDL	20	38		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40	
Diethyl Phthalate	<MDL	30	46		<MDL	20	38		<MDL	20	38		<MDL	20	40		<MDL	20	40		<MDL	20	40	
Dimethyl Phthalate	<MDL	7	14		<MDL	6	12		<MDL	6	12		<MDL	6	12		<MDL	6	12		<MDL	6	12	
Fluoranthene	320	10	28		<MDL	10	23			37		10	24											

1992 Core Samples (continued)

Section/Locator:	N Below Cap				LTBC34				N1				LTBC34				N2				LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Fluorene	20		10	24	<MDL		10	20																
Hexachlorobenzene		<MDL	10	24	<MDL		10	20																
Hexachlorobutadiene		<MDL	30	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Hexachlorocyclopentadiene		<MDL	30	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Hexachloroethane		<MDL	30	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Indeno(1,2,3-Cd)Pyrene	140		30	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Isophorone		<MDL	30	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
N-Nitrosodi-N-Propylamine		<MDL	30	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
N-Nitrosodimethylamine		<MDL	70	140	<MDL		60	120																
N-Nitrosodiphenylamine		<MDL	30	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Naphthalene		<MDL	40	70	<MDL		30	58	<MDL		30	58	<MDL		40	60	<MDL		40	60	<MDL		40	60
Nitrobenzene		<MDL	30	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Pentachlorophenol		<MDL	30	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Phenanthrene	230		10	24	<MDL		10	20			22				10	20								
Phenol		<MDL	70	140	<MDL		60	120																
Pyrene	370		10	24	21				10		20		46			10		20						
Gamma-BHC (Lindane)		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
4,4'-DDD		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
4,4'-DDE		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
4,4'-DDT		<MDL,G	2	4.6	<MDL,G		2	3.8	<MDL,G		2	3.8	<MDL,G		2	4	<MDL,G		2	4	<MDL,G		2	4
Aldrin		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Alpha-BHC		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Aroclor 1016		<MDL	20	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Aroclor 1221		<MDL	20	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Aroclor 1232		<MDL	20	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Aroclor 1242		<MDL	20	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Aroclor 1248	340		20	46	20	<RDL	20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Aroclor 1254	240		20	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Aroclor 1260	480		20	46	<MDL		20	38	<MDL		20	38	<MDL		20	40	<MDL		20	40	<MDL		20	40
Beta-BHC		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Chlordane		<MDL	10	24	<MDL		10	20																
Delta-BHC		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Dieldrin		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Endosulfan I		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Endosulfan II		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Endosulfan Sulfate		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Endrin		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Endrin Aldehyde		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Heptachlor		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Heptachlor Epoxide		<MDL	2	4.6	<MDL		2	3.8	<MDL		2	3.8	<MDL		2	4	<MDL		2	4	<MDL		2	4
Methoxychlor		<MDL	10	24					<MDL		10	20												

1992 Core Samples (continued)

Section/Locator:	N Below Cap LTBC34				N1 LTBC34				N2 LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Toxaphene	<MDL		20	46	<MDL		20	38	<MDL		20	40
METALS mg/Kg												
M.Code=CV												
Mercury	1				0.035				0.024			
M.Code=PE												
Aluminum	14000	B			9400	B			9300	B		
Antimony	2.8	E,G			1.2	E,G			1.2	E,G		
Arsenic	11				7				8.4			
Barium	80				36				42			
Beryllium	0.32				0.23				0.28			
Cadmium	1.1	L			0.23	L			0.12	L		
Chromium	41				14				12			
Copper	58	B			12	B			13	B		
Iron	18000	B			15000	B			16000	B		
Lead	110	E,B			4.7	E,B			4.8	E,B		
Nickel	41				12				11			
Selenium	<MDL	4			<MDL	3			<MDL	2		
Silver	5.4				0.35				0.36			
Thallium	11				9.3				9.6			
Zinc	110	B			45	B			45	B		
CONVENTIONALS												
Particle Size in % phi												
p-1.00					2.5	E	0.1		4.6	E	0.1	
p+0.00					16	E	0.1		9.9	E	0.1	
p+1.00					42	E	0.1		36	E	0.1	
p+2.00					30	E	0.1		39	E	0.1	
p+3.00					5.8	E	0.1		4.7	E	0.1	
p+4.00					1.4	E	0.1		1	E	0.1	
p+5.00					0.27	E	0.1		0.41	E	0.1	
p+6.00					0.57	E	0.1		1.2	E	0.1	
p+7.00					0.86	E	0.1		1.2	E	0.1	
p+8.00					<MDL,E	0.1			0.47	E	0.1	
p+9.00					<MDL,E	0.1			<MDL,E	0.1		
p+10.0					<MDL,E	0.1			<MDL,E	0.1		
p+11.0					<MDL,E	0.1			<MDL,E	0.1		
p+12.0					0.79	E	0.1		1.1	E	0.1	
Total Organic Carbon mg/Kg	25000	700			10000		600		17000		600	
FIELD DATA												
Sample Depth												
Sediment Type												
Vertical Distance												
Vertical Distance												
Sample Function	SAMP				SAMP				SAMP			
Sample Start Time												
Sampling Range Bottom	79				65				50			
Sampling Range Top	67.5				50				35			

1992 Core Samples (continued)

Section/Locator:	N3 LTBC34				N4 LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
Bis(2-Chloroethyl)Ether	<MDL	10	23		<MDL	10	20	
1,2,4-Trichlorobenzene	<MDL	10	23		<MDL	10	20	
1,2-Dichlorobenzene	<MDL	10	23		<MDL	10	20	
1,2-Diphenylhydrazine	<MDL	40	89		<MDL	30	78	
1,3-Dichlorobenzene	<MDL	10	23		<MDL	10	20	
1,4-Dichlorobenzene	<MDL	10	23		<MDL	10	20	
2,4,5-Trichlorophenol	<MDL	90	170		<MDL	80	150	
2,4,6-Trichlorophenol	<MDL	90	170		<MDL	80	150	
2,4-Dichlorophenol	<MDL	30	44		<MDL	20	38	
2,4-Dimethylphenol	<MDL	30	44		<MDL	20	38	
2,4-Dinitrophenol	<MDL	40	89		<MDL	30	78	
2,4-Dinitrotoluene	<MDL	9	17		<MDL	8	15	
2,6-Dinitrotoluene	<MDL	9	17		<MDL	8	15	
2-Choronaphthalene	<MDL	10	23		<MDL	10	20	
2-Chlorophenol	<MDL	40	89		<MDL	30	78	
2-Methylnaphthalene	<MDL	40	67		<MDL	30	58	
2-Methylphenol	<MDL	30	44		<MDL	20	38	
2-Nitroaniline	<MDL	70	130		<MDL	60	120	
2-Nitrophenol	<MDL	30	44		<MDL	20	38	
3,3'-Dichlorobenzidine	<MDL	30	44		<MDL	20	38	
3-Nitroaniline	<MDL	70	130		<MDL	60	120	
4,6-Dinitro-O-Cresol	<MDL	40	89		<MDL	30	78	
4-Bromophenyl Phenyl Ether	<MDL	7	13		<MDL	6	12	
4-Chloro-3-Methylphenol	<MDL	40	89		<MDL	30	78	
4-Chloroaniline	<MDL	40	89		<MDL	30	78	
4-Chlorophenyl Phenyl Ether	<MDL	10	23		<MDL	10	20	
4-Methylphenol	<MDL	30	44		<MDL	20	38	
4-Nitroaniline	<MDL	70	130		<MDL	60	120	
4-Nitrophenol	<MDL	40	89		<MDL	30	78	
Acenaphthene	<MDL	9	17		<MDL	8	15	
Acenaphthylene	<MDL	10	23		<MDL	10	20	
Aniline	<MDL	40	89		<MDL	30	78	
Anthracene	10	<RDL	10	23	<MDL	10	20	
Benzidine	<MDL	500	1100		<MDL	500	930	
Benzo(a)anthracene	<MDL	10	23		<MDL	10	20	
Benzo(a)pyrene	30	<RDL	30	44	<MDL	20	38	
Benzo(b)fluoranthene	40	<RDL	40	67	<MDL	30	58	
Benzo(g,h,i)perylene	<MDL	30	44		<MDL	20	38	
Benzo(k)fluoranthene	40	<RDL	40	67	<MDL	30	58	
Benzoic Acid	130		70	130	<MDL	60	120	
Benzyl Alcohol	<MDL	30	44		<MDL	20	38	
Benzyl Butyl Phthalate	<MDL	10	23		<MDL	10	20	
Bis(2-Chloroethoxy)Methane	<MDL	30	44		<MDL	20	38	
Bis(2-Chloroisopropyl)Ether	<MDL	40	89		<MDL	30	78	
Bis(2-Ethylhexyl)Phthalate	68		10	23	<MDL	10	20	
Carbazole	<MDL	30	44		<MDL	20	38	
Chrysene	33		10	23	<MDL	10	20	
Coprostanol	<MDL	70	130		<MDL	60	120	
Di-N-Butyl Phthalate	<MDL,B	30	44		<MDL,B	20	38	
Di-N-Octyl Phthalate	<MDL	10	23		<MDL	10	20	
Dibenzo(a,h)anthracene	<MDL	40	67		<MDL	30	58	
Dibenzofuran	<MDL	30	44		<MDL	20	38	
Diethyl Phthalate	<MDL	30	44		<MDL	20	38	
Dimethyl Phthalate	<MDL	7	13		<MDL	6	12	
Fluoranthene	100		10	27	<MDL	10	23	

1992 Core Samples (continued)

Section/Locator:	N3 LTBC34				N4 LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Fluorene	<MDL		10	23	<MDL		10	20
Hexachlorobenzene	<MDL		10	23	<MDL		10	20
Hexachlorobutadiene	<MDL		30	44	<MDL		20	38
Hexachlorocyclopentadiene	<MDL		30	44	<MDL		20	38
Hexachloroethane	<MDL		30	44	<MDL		20	38
Indeno(1,2,3-Cd)Pyrene	<MDL		30	44	<MDL		20	38
Isophorone	<MDL		30	44	<MDL		20	38
N-Nitrosodi-N-Propylamine	<MDL		30	44	<MDL		20	38
N-Nitrosodimethylamine	<MDL		70	130	<MDL		60	120
N-Nitrosodiphenylamine	<MDL,B		30	44	<MDL,B		20	38
Naphthalene	<MDL		40	67	<MDL		30	58
Nitrobenzene	<MDL		30	44	<MDL		20	38
Pentachlorophenol	<MDL		30	44	<MDL		20	38
Phenanthrene	41		10	23	<MDL		10	20
Phenol	<MDL		70	130	<MDL		60	120
Pyrene	72		10	23	<MDL		10	20
Gamma-BHC (Lindane)	<MDL		2	4.4	<MDL		2	3.8
4,4'-DDD	<MDL		2	4.4	<MDL		2	3.8
4,4'-DDE	<MDL		2	4.4	<MDL		2	3.8
4,4'-DDT	<MDL		2	4.4	<MDL		2	3.8
Aldrin	<MDL		2	4.4	<MDL		2	3.8
Alpha-BHC	<MDL		2	4.4	<MDL		2	3.8
Aroclor 1016	<MDL		20	44	<MDL		20	38
Aroclor 1221	<MDL		20	44	<MDL		20	38
Aroclor 1232	<MDL		20	44	<MDL		20	38
Aroclor 1242	<MDL		20	44	<MDL		20	38
Aroclor 1248	<MDL		20	44	<MDL		20	38
Aroclor 1254	<MDL		20	44	<MDL		20	38
Aroclor 1260	<MDL		20	44	<MDL		20	38
Beta-BHC	<MDL		2	4.4	<MDL		2	3.8
Chlordane	<MDL		10	23	<MDL		10	20
Delta-BHC	<MDL		2	4.4	<MDL		2	3.8
Dieldrin	<MDL		2	4.4	<MDL		2	3.8
Endosulfan I	<MDL		2	4.4	<MDL		2	3.8
Endosulfan II	<MDL		2	4.4	<MDL		2	3.8
Endosulfan Sulfate	<MDL		2	4.4	<MDL		2	3.8
Endrin	<MDL		2	4.4	<MDL		2	3.8
Endrin Aldehyde	<MDL		2	4.4	<MDL		2	3.8
Heptachlor	<MDL		2	4.4	<MDL		2	3.8
Heptachlor Epoxide	<MDL		2	4.4	<MDL		2	3.8
Methoxychlor	<MDL		10	23	<MDL		10	20

1992 Core Samples (continued)

Section/Locator:	N3 LTBC34				N4 LTBC34			
Sampled:	May 19, 92 9201200				May 19, 92 9201201			
Lab ID:								
Matrix:	SALTWTRSED				SALTWTRSED			
% Solids:	75				86			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Toxaphene	<MDL		20	44	<MDL		20	38
METALS mg/Kg								
M.Code=CV								
Mercury	0.027				0.023			
M.Code=PE								
Aluminum	11000	B			8000	B		
Antimony	1.3	E,G			1.2	E,G		
Arsenic	9.3				7			
Barium	44				27			
Beryllium	0.31				0.23			
Cadmium	0.27	L			0.12	L		
Chromium	15				11			
Copper	15	B			9.4	B		
Iron	17000	B			14000	B		
Lead	6.7	E,B			3.5	E,B		
Nickel	13				10			
Selenium	<MDL		3		<MDL		1	
Silver	0.4				0.23			
Thallium	9.3				9.3			
Zinc	51	B			38	B		
CONVENTIONALS								
Particle Size in % phi								
p-1.00	1.8	E	0.1		1.7	E	0.1	
p+0.00	5.8	E	0.1		9.1	E	0.1	
p+1.00	33	E	0.1		42	E	0.1	
p+2.00	41	E	0.1		42	E	0.1	
p+3.00	7.4	E	0.1		3.3	E	0.1	
p+4.00	2.4	E	0.1		0.3	E	0.1	
p+5.00	1.6	E	0.1		<MDL,E		0.1	
p+6.00	1.4	E	0.1		<MDL,E		0.1	
p+7.00	2.8	E	0.1		<MDL,E		0.1	
p+8.00	0.88	E	0.1		<MDL,E		0.1	
p+9.00	0.11	E	0.1		<MDL,E		0.1	
p+10.0	0.3	E	0.1		<MDL,E		0.1	
p+11.0	0.15	E	0.1		<MDL,E		0.1	
p+12.0	1.3	E	0.1		<MDL,E		0.1	
Total Organic Carbon mg/Kg	24000		700		4000		600	
FIELD DATA								
Sample Depth								
Sediment Type								
Vertical Distance								
Vertical Distance								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sampling Range Bottom	35				20			
Sampling Range Top	20				5			

1992 Core Samples (continued)

Section/Locator:	N Below Cap Replicate LTBC34				N1 Replicate LTBC34			
	May 19, 92 9201202 SALTWTRSED 49				May 19, 92 9201203 SALTWTRSED 83			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
Bis(2-Chloroethyl)Ether					<MDL		10	20
1,2,4-Trichlorobenzene	<MDL		20	35	<MDL		10	20
1,2-Dichlorobenzene	<MDL		20	35	<MDL		10	20
1,2-Diphenylhydrazine	<MDL		60	140	<MDL		40	81
1,3-Dichlorobenzene	<MDL		20	35	<MDL		10	20
1,4-Dichlorobenzene	<MDL		20	35	<MDL		10	20
2,4,5-Trichlorophenol	<MDL		100	270	<MDL		80	160
2,4,6-Trichlorophenol	<MDL		100	270	<MDL		80	160
2,4-Dichlorophenol	<MDL		40	67	<MDL		20	40
2,4-Dimethylphenol	<MDL		40	67	<MDL		20	40
2,4-Dinitrophenol	<MDL		60	140	<MDL		40	81
2,4-Dinitrotoluene	<MDL		10	27	<MDL		8	16
2,6-Dinitrotoluene	<MDL		10	27	<MDL		8	16
2-Chloronaphthalene	<MDL		20	35	<MDL		10	20
2-Chlorophenol	<MDL		60	140	<MDL		40	81
2-Methylnaphthalene	<MDL		60	100	<MDL		40	60
2-Methylphenol	<MDL		40	67	<MDL		20	40
2-Nitroaniline	<MDL		100	200	<MDL		60	120
2-Nitrophenol	<MDL		40	67	<MDL		20	40
3,3'-Dichlorobenzidine	<MDL		40	67	<MDL		20	40
3-Nitroaniline	<MDL		100	200	<MDL		60	120
4,6-Dinitro-O-Cresol	<MDL		60	140	<MDL		40	81
4-Bromophenyl Phenyl Ether	<MDL		10	20	<MDL		6	12
4-Chloro-3-Methylphenol	<MDL		60	140	<MDL		40	81
4-Chloroaniline	<MDL		60	140	<MDL		40	81
4-Chlorophenyl Phenyl Ether	<MDL		20	35	<MDL		10	20
4-Methylphenol	<MDL		40	67	<MDL		20	40
4-Nitroaniline	<MDL		100	200	<MDL		60	120
4-Nitrophenol	<MDL		60	140	<MDL		40	81
Acenaphthene	33		10	27	<MDL		8	16
Acenaphthylene	20	<RDL	20	35	<MDL		10	20
Aniline	<MDL		60	140	<MDL		40	81
Anthracene	78		20	35	<MDL		10	20
Benzidine	<MDL		800	1600	<MDL		500	960
Benzo(a)anthracene	200		20	35	<MDL		10	20
Benzo(a)pyrene	350		40	67	<MDL		20	40
Benzo(b)fluoranthene	410		60	100	<MDL		40	60
Benzo(g,h,i)perylene	120		40	67	<MDL		20	40
Benzo(k)fluoranthene	290		60	100	<MDL		40	60
Benzoic Acid	<MDL		100	200	<MDL		60	120
Benzyl Alcohol	<MDL		40	67	<MDL		20	40
Benzyl Butyl Phthalate	<MDL		20	35	<MDL		10	20
Bis(2-Chloroethoxy)Methane	<MDL		40	67	<MDL		20	40
Bis(2-Chloroisopropyl)Ether	<MDL		60	140	<MDL		40	81
Bis(2-Ethylhexyl)Phthalate	3100		20	35	<MDL		10	20
Carbazole	150		40	67	<MDL		20	40
Chrysene	190		20	35	<MDL		10	20
Coprostanol	<MDL		100	200	<MDL		60	120
Di-N-Butyl Phthalate	<MDL,B		40	67	<MDL,B		20	40
Di-N-Octyl Phthalate	<MDL		20	35	<MDL		10	20
Dibenzo(a,h)anthracene	<MDL		60	100	<MDL		40	60
Dibenzofuran	<MDL		40	67	<MDL		20	40
Diethyl Phthalate	<MDL		40	67	<MDL		20	40
Dimethyl Phthalate	<MDL		10	20	<MDL		6	12
Fluoranthene	860		20	41	<MDL		10	24

1992 Core Samples (continued)

Section/Locator:	N Below Cap Replicate LTBC34				N1 Replicate LTBC34			
Sampled:	May 19, 92 9201202				May 19, 92 9201203			
Lab ID:	SALTWTRSED 49				SALTWTRSED 83			
Matrix:								
% Solids:								
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Fluorene	39		20	35	<MDL		10	20
Hexachlorobenzene		<MDL	20	35	<MDL		10	20
Hexachlorobutadiene		<MDL	40	67	<MDL		20	40
Hexachlorocyclopentadiene		<MDL	40	67	<MDL		20	40
Hexachloroethane		<MDL	40	67	<MDL		20	40
Indeno(1,2,3-Cd)Pyrene	130		40	67	<MDL		20	40
Isophorone		<MDL	40	67	<MDL		20	40
N-Nitrosodi-N-Propylamine		<MDL	40	67	<MDL		20	40
N-Nitrosodimethylamine		<MDL	100	200	<MDL		60	120
N-Nitrosodiphenylamine		<MDL,B	40	67	<MDL,B		20	40
Naphthalene		<MDL	60	100	<MDL		40	60
Nitrobenzene		<MDL	40	67	<MDL		20	40
Pentachlorophenol		<MDL	40	67	<MDL		20	40
Phenanthrene	270		20	35	<MDL		10	20
Phenol		<MDL	100	200	<MDL		60	120
Pyrene	490		20	35	35		10	20
Gamma-BHC (Lindane)		<MDL	3	6.7	<MDL		2	4
4,4'-DDD		<MDL	3	6.7	<MDL		2	4
4,4'-DDE		<MDL	3	6.7	<MDL		2	4
4,4'-DDT		<MDL	3	6.7	<MDL		2	4
Aldrin		<MDL	3	6.7	<MDL		2	4
Alpha-BHC		<MDL	3	6.7	<MDL		2	4
Aroclor 1016		<MDL	30	67	<MDL		20	40
Aroclor 1221		<MDL	30	67	<MDL		20	40
Aroclor 1232		<MDL	30	67	<MDL		20	40
Aroclor 1242		<MDL	30	67	<MDL		20	40
Aroclor 1248	590		30	67	<MDL		20	40
Aroclor 1254	200		30	67	<MDL		20	40
Aroclor 1260	410		30	67	<MDL		20	40
Beta-BHC		<MDL	3	6.7	<MDL		2	4
Chlordane		<MDL	20	35	<MDL		10	20
Delta-BHC		<MDL	3	6.7	<MDL		2	4
Dieldrin		<MDL	3	6.7	<MDL		2	4
Endosulfan I		<MDL	3	6.7	<MDL		2	4
Endosulfan II		<MDL	3	6.7	<MDL		2	4
Endosulfan Sulfate		<MDL	3	6.7	<MDL		2	4
Endrin		<MDL	3	6.7	<MDL		2	4
Endrin Aldehyde		<MDL	3	6.7	<MDL		2	4
Heptachlor		<MDL	3	6.7	<MDL		2	4
Heptachlor Epoxide		<MDL	3	6.7	<MDL		2	4
Methoxychlor		<MDL	20	35	<MDL		10	20

1992 Core Samples (continued)

Section/Locator:	N Below Cap Replicate LTBC34				N1 Replicate LTBC34			
Sampled:	May 19, 92 9201202				May 19, 92 9201203			
Lab ID:	SALTWTRSED				SALTWTRSED			
Matrix:	49				83			
% Solids:								
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Toxaphene		<MDL	30	67		<MDL	20	40
METALS mg/Kg								
M.Code=CV								
Mercury	0.55					<MDL	0.02	
M.Code=PE								
Aluminum	20000	B			9300	B		
Antimony	2	E,G			1.2	E,G		
Arsenic	14				7.2			
Barium	94				35			
Beryllium	0.43				0.24			
Cadmium	1.3	L			0.12	L		
Chromium	55				12			
Copper	57	B			11	B		
Iron	22000	B			14000	B		
Lead	92	E,B			8.1	E,B		
Nickel	59				11			
Selenium		<MDL	2			<MDL	1	
Silver	4.7				0.36			
Thallium	16				11			
Zinc	240	B			46	B		
CONVENTIONALS								
Particle Size in % phi								
p-1.00					2.9	E	0.1	
p+0.00					8.8	E	0.1	
p+1.00					34	E	0.1	
p+2.00					42	E	0.1	
p+3.00					7.2	E	0.1	
p+4.00					1.9	E	0.1	
p+5.00					0.42	E	0.1	
p+6.00					0.62	E	0.1	
p+7.00					0.24	E	0.1	
p+8.00					0.36	E	0.1	
p+9.00					<MDL,E	0.1		
p+10.0					<MDL,E	0.1		
p+11.0					<MDL,E	0.1		
p+12.0					1	E	0.1	
Total Organic Carbon mg/Kg	44000		1000		15000		600	
FIELD DATA								
Sample Depth								
Sediment Type								
Vertical Distance								
Vertical Distance								
Sample Function	SAMP				SAMP			
Sample Start Time								
Sampling Range Bottom	69				60			
Sampling Range Top	62.5				45			

1992 Core Samples (continued)

Section/Locator:	P Below Cap				LTBD24				P1				LTBD24			
					May 19, 92 9201205 SALTWTRSED 65								May 19, 92 9201206 SALTWTRSED 75			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg																
Bis(2-Chloroethyl)Ether	<MDL		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
1,2,4-Trichlorobenzene	<MDL		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
1,2-Dichlorobenzene	<MDL		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
1,2-Diphenylhydrazine	<MDL		50	100	<MDL		40	89	<MDL		10	23	<MDL		10	23
1,3-Dichlorobenzene	<MDL		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
1,4-Dichlorobenzene	<MDL		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
2,4,5-Trichlorophenol	<MDL		100	200	<MDL		90	170	<MDL		90	170	<MDL		90	170
2,4,6-Trichlorophenol	<MDL		100	200	<MDL		90	170	<MDL		90	170	<MDL		90	170
2,4-Dichlorophenol	<MDL		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
2,4-Dimethylphenol	<MDL		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
2,4-Dinitrophenol	<MDL		50	100	<MDL		40	89	<MDL		40	89	<MDL		40	89
2,4-Dinitrotoluene	<MDL		10	20	<MDL		9	17	<MDL		9	17	<MDL		9	17
2,6-Dinitrotoluene	<MDL		10	20	<MDL		9	17	<MDL		9	17	<MDL		9	17
2-Chloronaphthalene	<MDL		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
2-Chlorophenol	<MDL		50	100	<MDL		40	89	<MDL		40	89	<MDL		40	89
2-Methylnaphthalene	<MDL		50	77	<MDL		40	67	<MDL		30	44	<MDL		30	44
2-Methylphenol	<MDL		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
2-Nitroaniline	<MDL		80	150	<MDL		70	130	<MDL		70	130	<MDL		70	130
2-Nitrophenol	<MDL		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
3,3'-Dichlorobenzidine	<MDL		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
3-Nitroaniline	<MDL		80	150	<MDL		70	130	<MDL		70	130	<MDL		70	130
4,6-Dinitro-O-Cresol	<MDL		50	100	<MDL		40	89	<MDL		40	89	<MDL		40	89
4-Bromophenyl Phenyl Ether	<MDL		8	15	<MDL		7	13	<MDL		7	13	<MDL		7	13
4-Chloro-3-Methylphenol	<MDL		50	100	<MDL		40	89	<MDL		40	89	<MDL		40	89
4-Chloroaniline	<MDL		50	100	<MDL		40	89	<MDL		40	89	<MDL		40	89
4-Chlorophenyl Phenyl Ether	<MDL		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
4-Methylphenol	<MDL		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
4-Nitroaniline	<MDL		80	150	<MDL		70	130	<MDL		70	130	<MDL		70	130
4-Nitrophenol	<MDL		50	100	<MDL		40	89	<MDL		40	89	<MDL		40	89
Acenaphthene	51		10	20	<MDL		9	17	<MDL		9	17	<MDL		9	17
Acenaphthylene	51		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
Aniline	<MDL		50	100	<MDL		40	89	<MDL		40	89	<MDL		40	89
Anthracene	100		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
Benzidine	<MDL		600	1200	<MDL		500	1100	<MDL		500	1100	<MDL		500	1100
Benzo(a)anthracene	370		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
Benzo(a)pyrene	540		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
Benzo(b)fluoranthene	880		50	77	<MDL		40	67	<MDL		40	67	<MDL		40	67
Benzo(g,h,i)perylene	230		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
Benzo(k)fluoranthene	710		50	77	<MDL		40	67	<MDL		40	67	<MDL		40	67
Benzoic Acid	<MDL		80	150	<MDL		70	130	<MDL		70	130	<MDL		70	130
Benzyl Alcohol	<MDL		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
Benzyl Butyl Phthalate	<MDL		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
Bis(2-Chloroethoxy)Methane	<MDL		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
Bis(2-Chloroisopropyl)Ether	<MDL		50	100	<MDL		40	89	<MDL		40	89	<MDL		40	89
Bis(2-Ethylhexyl)Phthalate	4200		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
Carbazole	69		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
Chrysene	510		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
Coprostanol	<MDL		80	150	<MDL		70	130	<MDL		70	130	<MDL		70	130
Di-N-Butyl Phthalate	<MDL,B		30	51	<MDL,B		30	44	<MDL,B		30	44	<MDL,B		30	44
Di-N-Octyl Phthalate	<MDL		10	26	<MDL		10	23	<MDL		10	23	<MDL		10	23
Dibenzofuran	<MDL		50	77	<MDL		40	67	<MDL		40	67	<MDL		40	67
Dibenzofuran	<MDL		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
Diethyl Phthalate	<MDL		30	51	<MDL		30	44	<MDL		30	44	<MDL		30	44
Dimethyl Phthalate	<MDL		8	15	<MDL		7	13	<MDL		7	13	<MDL		7	13
Fluoranthene	570		20	31	<MDL		10	27	<MDL		10	27	<MDL		10	27

1992 Core Samples (continued)

Section/Locator:	P Below Cap				LTBD24				P1				LTBD24			
					May 19, 92 9201205 SALTWTRSED 65								May 19, 92 9201206 SALTWTRSED 75			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Fluorene	65		10	26			<MDL		10		23					
Hexachlorobenzene		<MDL	10	26			<MDL		10		23					
Hexachlorobutadiene		<MDL	30	51			<MDL		30		44					
Hexachlorocyclopentadiene		<MDL	30	51			<MDL		30		44					
Hexachloroethane		<MDL	30	51			<MDL		30		44					
Indeno(1,2,3-Cd)Pyrene	220		30	51			<MDL		30		44					
Isophorone		<MDL	30	51			<MDL		30		44					
N-Nitrosodi-N-Propylamine		<MDL	30	51			<MDL		30		44					
N-Nitrosodimethylamine		<MDL	80	150			<MDL		70		130					
N-Nitrosodiphenylamine		<MDL,B	30	51			<MDL,B		30		44					
Naphthalene	50	<RDL	50	77			<MDL		40		67					
Nitrobenzene		<MDL	30	51			<MDL		30		44					
Pentachlorophenol		<MDL	30	51			<MDL		30		44					
Phenanthrene	370		10	26			<MDL		10		23					
Phenol		<MDL	80	150			<MDL		70		130					
Pyrene	1000		10	26			<MDL		10		23					
Gamma-BHC (Lindane)		<MDL	3	5.1			<MDL		2		4.4					
4,4'-DDD		<MDL	3	5.1			<MDL		2		4.4					
4,4'-DDE		<MDL	3	5.1			<MDL		2		4.4					
4,4'-DDT		<MDL	3	5.1			<MDL		2		4.4					
Aldrin		<MDL	3	5.1			<MDL		2		4.4					
Alpha-BHC		<MDL	3	5.1			<MDL		2		4.4					
Aroclor 1016		<MDL	30	51			<MDL		20		44					
Aroclor 1221		<MDL	30	51			<MDL		20		44					
Aroclor 1232		<MDL	30	51			<MDL		20		44					
Aroclor 1242		<MDL	30	51			<MDL		20		44					
Aroclor 1248	850		30	51			<MDL		20		44					
Aroclor 1254	260		30	51			<MDL		20		44					
Aroclor 1260	290		30	51			<MDL		20		44					
Beta-BHC		<MDL	3	5.1			<MDL		2		4.4					
Chlordane		<MDL	10	26			<MDL		10		23					
Delta-BHC		<MDL	3	5.1			<MDL		2		4.4					
Dieldrin		<MDL	3	5.1			<MDL		2		4.4					
Endosulfan I		<MDL	3	5.1			<MDL		2		4.4					
Endosulfan II		<MDL	3	5.1			<MDL		2		4.4					
Endosulfan Sulfate		<MDL	3	5.1			<MDL		2		4.4					
Endrin		<MDL	3	5.1			<MDL		2		4.4					
Endrin Aldehyde		<MDL	3	5.1			<MDL		2		4.4					
Heptachlor		<MDL	3	5.1			<MDL		2		4.4					
Heptachlor Epoxide		<MDL	3	5.1			<MDL		2		4.4					
Methoxychlor		<MDL	10	26			<MDL		10		23					

1992 Core Samples (continued)

Section/Locator:	P Below Cap				LTBD24				P1				LTBD24			
Sampled:	May 19, 92				May 19, 92				May 19, 92				May 19, 92			
Lab ID:	9201205				9201206				9201206				9201206			
Matrix:	SALTWTRSED				SALTWTRSED				SALTWTRSED				SALTWTRSED			
% Solids:	65				75				75				75			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Toxaphene		<MDL	30	51		<MDL				<MDL		20		44		
METALS mg/Kg																
	M.Code=CV															
Mercury		1								<MDL		0.03				
	M.Code=PE															
Aluminum	17000	B					10000	B								
Antimony	3.1	E,G					1.3	E,G								
Arsenic	12						8									
Barium	95						45									
Beryllium	0.35						0.28									
Cadmium	2.5	L					0.13	L								
Chromium	51						12									
Copper	80	B					13	B								
Iron	20000	B					17000	B								
Lead	150	E,B					8.4	E,B								
Nickel	49						12									
Selenium		<MDL		2				<MDL				3				
Silver	7.2						0.27									
Thallium	15						12									
Zinc	250	B					49	B								
CONVENTIONALS																
Particle Size in % phi																
p-1.00							3.5	E				0.1				
p+0.00							8.7	E				0.1				
p+1.00							32	E				0.1				
p+2.00							42	E				0.1				
p+3.00							7.2	E				0.1				
p+4.00							2	E				0.1				
p+5.00							0.78	E				0.1				
p+6.00							1.1	E				0.1				
p+7.00							0.59	E				0.1				
p+8.00							0.38	E				0.1				
p+9.00							<MDL,E					0.1				
p+10.0							<MDL,E					0.1				
p+11.0							<MDL,E					0.1				
p+12.0							1.5	E				0.1				
Total Organic Carbon mg/Kg	43000		800				11000					700				
FIELD DATA																
Sample Depth																
Sediment Type																
Vertical Distance																
Vertical Distance																
Sample Function	SAMP						SAMP									
Sample Start Time																
Sampling Range Bottom							64									
Sampling Range Top	65						49									

APPENDIX G

SURFACE SAMPLE CHEMISTRY DATA

1990 Surface Samples

Station/Locator: Sampled: Lab ID: Matrix: % Solids:	J LTBC20				K LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Parameters Dry Weight ORGANICS µg/Kg								
1,2,4-Trichlorobenzene	<MDL		6	12	<MDL		6	12
1,2-Dichlorobenzene	<MDL		6	12	<MDL		6	12
1,2-Diphenylhydrazine	<MDL		30	48	<MDL		30	46
1,3-Dichlorobenzene	<MDL		6	12	<MDL		6	12
1,4-Dichlorobenzene	<MDL,G		6	12	<MDL,G		6	12
2,4,5-Trichlorophenol	<MDL		40	97	<MDL		40	93
2,4,6-Trichlorophenol	<MDL		40	97	<MDL		40	93
2,4-Dichlorophenol	<MDL		10	25	<MDL		10	24
2,4-Dimethylphenol	<MDL		10	25	<MDL		10	24
2,4-Dinitrophenol	<MDL		30	48	<MDL		30	46
2,4-Dinitrotoluene	<MDL		4	9.7	<MDL		4	9.3
2,6-Dinitrotoluene	<MDL		4	9.7	<MDL		4	9.3
2-Chloronaphthalene	<MDL		6	12	<MDL		6	12
2-Chlorophenol	<MDL		30	48	<MDL		30	46
2-Methylnaphthalene	<MDL		10	36	<MDL		10	35
2-Methylphenol	<MDL		10	25	<MDL		10	24
2-Nitroaniline	<MDL		40	72	<MDL		40	69
2-Nitrophenol	<MDL		10	25	<MDL		10	24
3,3'-Dichlorobenzidine								
3-Nitroaniline	<MDL		40	72	<MDL		40	69
4,6-Dinitro-O-Cresol	<MDL		30	48	<MDL		30	46
4-Bromophenyl Phenyl Ether	<MDL		4	7.2	<MDL		4	6.9
4-Chloro-3-Methylphenol	<MDL		30	48	<MDL		30	46
4-Chloroaniline	<MDL		30	48	<MDL		30	46
4-Chlorophenyl Phenyl Ether	<MDL		6	12	<MDL		6	12
4-Methylphenol	<MDL		10	25	<MDL		10	24
4-Nitroaniline	<MDL		40	72	<MDL		40	69
4-Nitrophenol	<MDL		30	48	<MDL		30	46
Acenaphthene	<MDL		4	9.7	<MDL		4	9.3
Acenaphthylene	<MDL		6	12	<MDL		6	12
Aniline	<MDL		30	48	<MDL		30	46
Anthracene	<MDL		6	12	<MDL		6	12
Benzidine	<MDL		300	580	<MDL		300	560
Benzo(a)anthracene	19		6	12	15		6	12
Benzo(a)pyrene	<MDL		10	25	<MDL		10	24
Benzo(b)fluoranthene	<MDL		10	36	<MDL		10	35
Benzo(g,h,i)perylene	<MDL		10	25	<MDL		10	24
Benzo(k)fluoranthene	<MDL		10	36	<MDL		10	35
Benzoic Acid	140		40	72	110		40	69
Benzyl Alcohol	<MDL		10	25	<MDL		10	24
Benzyl Butyl Phthalate	<MDL		6	12	<MDL		6	12
Bis(2-Chloroethoxy)Methane	<MDL		10	25	<MDL		10	24
Bis(2-Chloroethyl)Ether	<MDL		10	25	<MDL		10	24
Bis(2-Chloroisopropyl)Ether	<MDL		30	48	<MDL		30	46
Bis(2-Ethylhexyl)Phthalate	57		6	12	130		6	12
Chrysene	25		6	12	15		6	12
Di-N-Butyl Phthalate	<MDL		10	25	<MDL		10	24
Di-N-Octyl Phthalate	<MDL		6	12	<MDL		6	12
Dibenzo(a,h)anthracene	<MDL		10	36	<MDL		10	35

1990 Surface Samples (continued)

Station/Locator: Sampled: Lab ID: Matrix: % Solids:	J LTBC20 Apr 03, 90 9000327 OTHR SOLID 69				K LTBC34 Apr 03, 90 9000328 OTHR SOLID 72					
	Parameters	Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Dibenzofuran			<MDL		10	25	<MDL		10	24
Diethyl Phthalate			<MDL		10	25	<MDL		10	24
Dimethyl Phthalate			<MDL		4	7.2	<MDL		4	6.9
Fluoranthene		49			7	14	49		7	14
Fluorene			<MDL		6	12	<MDL		6	12
Hexachlorobenzene			<MDL		6	12	<MDL		6	12
Hexachlorobutadiene			<MDL		10	25	<MDL		10	24
Hexachlorocyclopentadiene			<MDL		10	25	<MDL		10	24
Hexachloroethane			<MDL		10	25	<MDL		10	24
Indeno(1,2,3-Cd)Pyrene			<MDL		10	25	<MDL		10	24
Isophorone			<MDL		10	25	<MDL		10	24
N-Nitrosodi-N-Propylamine			<MDL		10	25	<MDL		10	24
N-Nitrosodimethylamine			<MDL		40	72	<MDL		40	69
N-Nitrosodiphenylamine			<MDL		10	25	<MDL		10	24
Naphthalene			<MDL		10	36	<MDL		10	35
Nitrobenzene			<MDL		10	25	<MDL		10	24
Pentachlorophenol			<MDL		10	25	<MDL		10	24
Phenanthrene		38			6	12	40		6	12
Phenol			<MDL		40	72	<MDL		40	69
Pyrene		41			6	12	33		6	12
4,4'-DDD			<MDL		1	2.5	<MDL		1	2.4
4,4'-DDE			<MDL		1	2.5	<MDL		1	2.4
4,4'-DDT			<MDL		1	2.5	<MDL		1	2.4
Aldrin			<MDL		1	2.5	<MDL		1	2.4
Alpha-BHC			<MDL		1	2.5	<MDL		1	2.4
Aroclor 1016			<MDL		10	25	<MDL		10	24
Aroclor 1221			<MDL		10	25	<MDL		10	24
Aroclor 1232			<MDL		10	25	<MDL		10	24
Aroclor 1242			<MDL		10	25	<MDL		10	24
Aroclor 1248			<MDL		10	25	<MDL		10	24
Aroclor 1254			<MDL		10	25	<MDL		10	24
Aroclor 1260			<MDL		10	25	<MDL		10	24
Beta-BHC			<MDL		1	2.5	<MDL		1	2.4
Chlordane			<MDL		6	12	<MDL		6	12
Delta-BHC			<MDL		1	2.5	<MDL		1	2.4
Die�drin			<MDL		1	2.5	<MDL		1	2.4
Endosulfan I			<MDL		1	2.5	<MDL		1	2.4
Endosulfan II			<MDL		1	2.5	<MDL		1	2.4
Endosulfan Sulfate			<MDL		1	2.5	<MDL		1	2.4
Endrin			<MDL		1	2.5	<MDL		1	2.4
Endrin Aldehyde			<MDL		1	2.5	<MDL		1	2.4
Gamma-BHC (Lindane)			<MDL		1	2.5	<MDL		1	2.4
Heptachlor			<MDL		1	2.5	<MDL		1	2.4
Heptachlor Epoxide			<MDL		1	2.5	<MDL		1	2.4
Methoxychlor			<MDL		6	12	<MDL		6	12
Toxaphene			<MDL		10	25	<MDL		10	24
1,1,1-Trichloroethane			<MDL		7	14	<MDL		7	14
1,1,2,2-Tetrachloroethane			<MDL		7	14	<MDL		7	14
1,1,2-Trichloroethane			<MDL		7	14	<MDL		7	14
1,1,2-Trichloroethylene			<MDL		7	14	<MDL		7	14
1,1-Dichloroethylene			<MDL		7	14	<MDL		7	14
1,1-Dichloroethene			<MDL		7	14	<MDL		7	14
1,2-Dichloroethane			<MDL		7	14	<MDL		7	14

1990 Surface Samples (continued)

Station/Locator: Sampled: Lab ID: Matrix: % Solids:	J LTBC20				K LTBC34			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Parameters Dry Weight								
1,2-Dichloropropane	<MDL		7	14	<MDL		7	14
2-Butanone (MEK)	<MDL		40	72	<MDL		40	69
2-Chloroethylvinyl ether	<MDL		7	14	<MDL		7	14
2-Hexanone	<MDL		40	72	<MDL		40	69
4-Methyl-2-Pentanone (MIBK)	<MDL		40	72	<MDL		40	69
Acetone	<MDL		40	72	<MDL		40	69
Acrolein	<MDL		40	72	<MDL		40	69
Acrylonitrile	<MDL		40	72	<MDL		40	69
Benzene	<MDL		7	14	<MDL		7	14
Bromodichloromethane	<MDL		7	14	<MDL		7	14
Bromoform	<MDL		7	14	<MDL		7	14
Bromomethane	<MDL		7	14	<MDL		7	14
Carbon Disulfide	<MDL		7	14	<MDL		7	14
Carbon Tetrachloride	<MDL		7	14	<MDL		7	14
Chlorobenzene	<MDL		7	14	<MDL		7	14
Chlorodibromomethane	<MDL		7	14	<MDL		7	14
Chloroethane	<MDL		7	14	<MDL		7	14
Chloroform	<MDL		7	14	<MDL		7	14
Chloromethane	<MDL		7	14	<MDL		7	14
cis-1,3-Dichloropropene	<MDL		7	14	<MDL		7	14
Ethylbenzene	<MDL		7	14	<MDL		7	14
Methylene Chloride	<MDL		40	72	<MDL		40	69
Styrene	<MDL		7	14	<MDL		7	14
Tetrachloroethylene	<MDL		7	14	<MDL		7	14
Toluene	<MDL		7	14	<MDL		7	14
Total Xylenes	<MDL		7	14	<MDL		7	14
Trans-1,2-Dichloroethylene	<MDL		7	14	<MDL		7	14
Trans-1,3-Dichloropropene	<MDL		7	14	<MDL		7	14
Trichlorofluoromethane	<MDL		7	14	<MDL		7	14
Vinyl Acetate	<MDL		40	72	<MDL		40	69
Vinyl Chloride	<MDL		7	14	<MDL		7	14

1990 Surface Samples (continued)

Station/Locator:	J LTBC20				K LTBC34			
Sampled:	Apr 03, 90 9000327				Apr 03, 90 9000328			
Lab ID:	Matrix: OTHR SOLID 69				OTHR SOLID 72			
Matrix:								
% Solids:								
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
METALS mg/Kg								
M.Code=CV								
Mercury	0.058				0.056			
M.Code=GF								
Antimony	<MDL,G	1			<MDL,G	1		
Thallium	<MDL,E	3			<MDL,E	3		
M.Code=HE								
Arsenic	5.8	E,G			4.2	E,G		
Selenium	<MDL,G	1			<MDL,G	1		
M.Code=PE								
Aluminum	11000	E,B			9000	E,B		
Barium	39	E,B			36	E,B		
Beryllium	0.29	E			0.14	E		
Cadmium	<MDL,E	0.3			<MDL,E	0.3		
Chromium	14	E,B			13	E,B		
Copper	11	E,B			9.9	E,B		
Iron	19000	E			15000	E		
Lead	7.2	E			14	E		
Manganese								
Nickel	13	E			9.7	E		
Silver	<MDL,E	0.4			<MDL,E	0.4		
Zinc	49	E			47	E		
CONVENTIONALS								
Particle size in % phi								
p-2.00								
p-1.00	0.78	E	0.01		0.38	E	0.01	
p+0.00	3	E	0.01		1.3	E	0.01	
p+1.00	23	E	0.01		13	E	0.01	
p+2.00	50	E	0.01		51	E	0.01	
p+3.00	15	E	0.01		27	E	0.01	
p+4.00	1.8	E	0.01		1	E	0.01	
p+5.00	1.5	E	0.01		1.2	E	0.01	
p+6.00	1.6	E	0.01		0.97	E	0.01	
p+7.00	<MDL,E	0.01			0.97	E	0.01	
p+8.00	0.52	E	0.01		0.44	E	0.01	
p+9.00	0.09	E	0.01		0.18	E	0.01	
p+10.0	0.17	E	0.01		0.26	E	0.01	
p+11.0	<MDL,E	0.01			0.09	E	0.01	
p+12.0	1.3	E	0.01		1.4	E	0.01	
Total Organic Carbon mg/Kg	12000		700		9700		700	
FIELD DATA								
Storm Or Non-Storm								
Tidal Condition								
Sample Function	SAMP				SAMP			
Sample Start Time	910				940			
Sediment Sampling Range Bottom								
Sediment Sampling Range Top								

1990 Surface Samples (continued)

Station/Locator:	L LTBC35				M LTBD23			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
1,2,4-Trichlorobenzene	<MDL		6	12	<MDL		5	11
1,2-Dichlorobenzene	<MDL		6	12	<MDL		5	11
1,2-Diphenylhydrazine	<MDL		30	46	<MDL		30	44
1,3-Dichlorobenzene	<MDL		6	12	<MDL		5	11
1,4-Dichlorobenzene	<MDL,G		6	12	<MDL,G		5	11
2,4,5-Trichlorophenol	<MDL		40	94	<MDL		40	89
2,4,6-Trichlorophenol	<MDL		40	94	<MDL		40	89
2,4-Dichlorophenol	<MDL		10	24	<MDL		10	23
2,4-Dimethylphenol	<MDL		10	24	<MDL		10	23
2,4-Dinitrophenol	<MDL		30	46	<MDL		30	44
2,4-Dinitrotoluene	<MDL		4	9.4	<MDL		4	8.9
2,6-Dinitrotoluene	<MDL		4	9.4	<MDL		4	8.9
2-Choronaphthalene	<MDL		6	12	<MDL		5	11
2-Chlorophenol	<MDL		30	46	<MDL		30	44
2-Methylnaphthalene	<MDL		10	35	<MDL		10	33
2-Methylphenol	<MDL		10	24	<MDL		10	23
2-Nitroaniline	<MDL		40	70	<MDL		40	67
2-Nitrophenol	<MDL		10	24	<MDL		10	23
3,3'-Dichlorobenzidine								
3-Nitroaniline	<MDL		40	70	<MDL		40	67
4,6-Dinitro-O-Cresol	<MDL		30	46	<MDL		30	44
4-Bromophenyl Phenyl Ether	<MDL		4	7	<MDL		4	6.7
4-Chloro-3-Methylphenol	<MDL		30	46	<MDL		30	44
4-Chloroaniline	<MDL		30	46	<MDL		30	44
4-Chlorophenyl Phenyl Ether	<MDL		6	12	<MDL		5	11
4-Methylphenol	<MDL		10	24	<MDL		10	23
4-Nitroaniline	<MDL		40	70	<MDL		40	67
4-Nitrophenol	<MDL		30	46	<MDL		30	44
Acenaphthene	<MDL		4	9.4	<MDL		4	8.9
Acenaphthylene	<MDL		6	12	<MDL		5	11
Aniline	<MDL		30	46	<MDL		30	44
Anthracene	<MDL		6	12	<MDL		5	11
Benzidine	<MDL		300	560	<MDL		300	530
Benzo(a)anthracene	<MDL		6	12	<MDL		5	11
Benzo(a)pyrene	<MDL		10	24	<MDL		10	23
Benzo(b)fluoranthene	<MDL		10	35	<MDL		10	33
Benzo(g,h,i)perylene	<MDL		10	24	<MDL		10	23
Benzo(k)fluoranthene	<MDL		10	35	<MDL		10	33
Benzoic Acid	110		40	70	<MDL		40	67
Benzyl Alcohol	<MDL		10	24	<MDL		10	23
Benzyl Butyl Phthalate	<MDL		6	12	<MDL		5	11
Bis(2-Chloroethoxy)Methane	<MDL		10	24	<MDL		10	23
Bis(2-Chloroethyl)Ether	<MDL		10	24	<MDL		10	23
Bis(2-Chloroisopropyl)Ether	<MDL		30	46	<MDL		30	44
Bis(2-Ethylhexyl)Phthalate	44		6	12	<MDL		5	11
Chrysene	17		6	12	<MDL		5	11
Di-N-Butyl Phthalate	<MDL		10	24	<MDL		10	23
Di-N-Octyl Phthalate	<MDL		6	12	<MDL		5	11
Dibenzo(a,h)anthracene	<MDL		10	35	<MDL		10	33

1990 Surface Samples (continued)

Station/Locator:	L LTBC35				M LTBD23			
	Sampled:	Apr 03, 90	MDL	RDL	Sampled:	Apr 03, 90	MDL	RDL
Lab ID:	9000329			Lab ID:	9000330			
Matrix:	OTHR SOLID			Matrix:	OTHR SOLID			
% Solids:	71			% Solids:	75			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Dibenzofuran	<MDL		10	24	<MDL		10	23
Diethyl Phthalate	<MDL		10	24	<MDL		10	23
Dimethyl Phthalate	<MDL		4	7	<MDL		4	6.7
Fluoranthene	35		7	14	19		7	13
Fluorene	<MDL		6	12	<MDL		5	11
Hexachlorobenzene	<MDL		6	12	<MDL		5	11
Hexachlorobutadiene	<MDL		10	24	<MDL		10	23
Hexachlorocyclopentadiene	<MDL		10	24	<MDL		10	23
Hexachloroethane	<MDL		10	24	<MDL		10	23
Indeno(1,2,3-Cd)Pyrene	<MDL		10	24	<MDL		10	23
Isophorone	<MDL		10	24	<MDL		10	23
N-Nitrosodi-N-Propylamine	<MDL		10	24	<MDL		10	23
N-Nitrosodimethylamine	<MDL		40	70	<MDL		40	67
N-Nitrosodiphenylamine	<MDL		10	24	<MDL		10	23
Naphthalene	<MDL		10	35	<MDL		10	33
Nitrobenzene	<MDL		10	24	<MDL		10	23
Pentachlorophenol	<MDL		10	24	<MDL		10	23
Phenanthrene	23		6	12	12		5	11
Phenol	<MDL		40	70	<MDL		40	67
Pyrene	27		6	12	12		5	11
4,4'-DDD	<MDL		1	2.4	<MDL		1	2.3
4,4'-DDE	<MDL		1	2.4	<MDL		1	2.3
4,4'-DDT	<MDL		1	2.4	<MDL		1	2.3
Aldrin	<MDL		1	2.4	<MDL		1	2.3
Alpha-BHC	<MDL		1	2.4	<MDL		1	2.3
Aroclor 1016	<MDL		10	24	<MDL		10	23
Aroclor 1221	<MDL		10	24	<MDL		10	23
Aroclor 1232	<MDL		10	24	<MDL		10	23
Aroclor 1242	<MDL		10	24	<MDL		10	23
Aroclor 1248	<MDL		10	24	<MDL		10	23
Aroclor 1254	<MDL		10	24	<MDL		10	23
Aroclor 1260	<MDL		10	24	<MDL		10	23
Beta-BHC	<MDL		1	2.4	<MDL		1	2.3
Chlordane	<MDL		6	12	<MDL		6	11
Delta-BHC	<MDL		1	2.4	<MDL		1	2.3
Dieldrin	<MDL		1	2.4	<MDL		1	2.3
Endosulfan I	<MDL		1	2.4	<MDL		1	2.3
Endosulfan II	<MDL		1	2.4	<MDL		1	2.3
Endosulfan Sulfate	<MDL		1	2.4	<MDL		1	2.3
Endrin	<MDL		1	2.4	<MDL		1	2.3
Endrin Aldehyde	<MDL		1	2.4	<MDL		1	2.3
Gamma-BHC (Lindane)	<MDL		1	2.4	<MDL		1	2.3
Heptachlor	<MDL		1	2.4	<MDL		1	2.3
Heptachlor Epoxide	<MDL		1	2.4	<MDL		1	2.3
Methoxychlor	<MDL		6	12	<MDL		6	11
Toxaphene	<MDL		10	24	<MDL		10	23
1,1,1-Trichloroethane	<MDL		7	14	<MDL		7	13
1,1,2,2-Tetrachloroethane	<MDL		7	14	<MDL		7	13
1,1,2-Trichloroethane	<MDL		7	14	<MDL		7	13
1,1,2-Trichloroethylene	<MDL		7	14	<MDL		7	13
1,1-Dichloroethane	<MDL		7	14	<MDL		7	13
1,1-Dichloroethylene	<MDL		7	14	<MDL		7	13
1,2-Dichloroethane	<MDL		7	14	<MDL		7	13

1990 Surface Samples (continued)

Station/Locator: Sampled: Lab ID: Matrix: % Solids:	L LTBC35				M LTBD23			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
1,2-Dichloropropane	<MDL		7	14	<MDL		7	13
2-Butanone (MEK)	<MDL		40	70	<MDL		40	67
2-Chloroethylvinyl ether	<MDL		7	14	<MDL		7	13
2-Hexanone	<MDL		40	70	<MDL		40	67
4-Methyl-2-Pentanone (MIBK)	<MDL		40	70	<MDL		40	67
Acetone	<MDL		40	70	<MDL		40	67
Acrolein	<MDL		40	70	<MDL		40	67
Acrylonitrile	<MDL		40	70	<MDL		40	67
Benzene	<MDL		7	14	<MDL		7	13
Bromodichloromethane	<MDL		7	14	<MDL		7	13
Bromoform	<MDL		7	14	<MDL		7	13
Bromomethane	<MDL		7	14	<MDL		7	13
Carbon Disulfide	<MDL		7	14	<MDL		7	13
Carbon Tetrachloride	<MDL		7	14	<MDL		7	13
Chlorobenzene	<MDL		7	14	<MDL		7	13
Chlorodibromomethane	<MDL		7	14	<MDL		7	13
Chloroethane	<MDL		7	14	<MDL		7	13
Chloroform	<MDL		7	14	<MDL		7	13
Chloromethane	<MDL		7	14	<MDL		7	13
cis-1,3-Dichloropropene	<MDL		7	14	<MDL		7	13
Ethylbenzene	<MDL		7	14	<MDL		7	13
Methylene Chloride	<MDL		40	70	<MDL		40	67
Styrene	<MDL		7	14	<MDL		7	13
Tetrachloroethylene	<MDL		7	14	<MDL		7	13
Toluene	<MDL		7	14	<MDL		7	13
Total Xylenes	<MDL		7	14	<MDL		7	13
Trans-1,2-Dichloroethylene	<MDL		7	14	<MDL		7	13
Trans-1,3-Dichloropropene	<MDL		7	14	<MDL		7	13
Trichlorofluoromethane	<MDL		7	14	<MDL		7	13
Vinyl Acetate	<MDL		40	70	<MDL		40	67
Vinyl Chloride	<MDL		7	14	<MDL		7	13

1990 Surface Samples (continued)

Station/Locator:	L LTBC35				M LTBD23			
Sampled:	Apr 03, 90 9000329				Apr 03, 90 9000330			
Lab ID:	OTHR SOLID 71				OTHR SOLID 75			
Matrix:								
% Solids:	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Parameters Dry Weight								
METALS mg/Kg								
M.Code=CV								
Mercury	0.07				0.04			
M.Code=GF								
Antimony	<MDL,G	1			<MDL,G	1		
Thallium	<MDL,E	3			<MDL,E	3		
M.Code=HE								
Arsenic	4.2	E,G			4	E,G		
Selenium	<MDL,G	1			<MDL,G	1		
M.Code=PE								
Aluminum	15000	E,B			7600	E,B		
Barium	38	E,B			28	E,B		
Beryllium	0.14	E			0.27	E		
Cadmium	<MDL,E	0.3			<MDL	0.4		
Chromium	12	E,B			11	E		
Copper	9.6	E,B			7.9	E,B		
Iron	15000	E			16000	E,B		
Lead	5.6	E			5.3	E		
Manganese								
Nickel	9.9	E			9.3	E		
Silver	<MDL,E	0.3			<MDL	0.4		
Zinc	41	E			39	E		
CONVENTIONALS								
Particle size in % phi								
p-2.00								
p-1.00	2.9	E	0.01		2	E	0.01	
p+0.00	2.6	E	0.01		5	E	0.01	
p+1.00	19	E	0.01		27	E	0.01	
p+2.00	50	E	0.01		53	E	0.01	
p+3.00	19	E	0.01		11	E	0.01	
p+4.00	1.3	E	0.01		0.07	E	0.01	
p+5.00	1.2	E	0.01		0.33	E	0.01	
p+6.00	1.4	E	0.01		1.4	E	0.01	
p+7.00	0.8	E	0.01		<MDL,E	0.01		
p+8.00	0.62	E	0.01		<MDL,E	0.01		
p+9.00	0.18	E	0.01		<MDL,E	0.01		
p+10.0	0.27	E	0.01		<MDL,E	0.01		
p+11.0	0.09	E	0.01		<MDL,E	0.01		
p+12.0	1.2	E	0.01		0.03	E	0.01	
Total Organic Carbon mg/Kg	6300		700		1300		700	
FIELD DATA								
Storm Or Non-Storm								
Tidal Condition								
Sample Function	SAMP				SAMP			
Sample Start Time	1010				1130			
Sediment Sampling Range Bottom								
Sediment Sampling Range Top								

1990 Surface Samples (continued)

Station/Locator:	S	LTBD25	
Sampled:		Apr 26, 90	
Lab ID:		9000395	
Matrix:		SALTWTRSED	
% Solids:		77	
Parameters Dry Weight	Value	Qual	MDL
ORGANICS µg/Kg			RDL
1,2,4-Trichlorobenzene	<MDL	20	32
1,2-Dichlorobenzene	<MDL	20	32
1,2-Diphenylhydrazine	<MDL	60	130
1,3-Dichlorobenzene	<MDL	20	32
1,4-Dichlorobenzene	<MDL	20	32
2,4,5-Trichlorophenol	<MDL	100	260
2,4,6-Trichlorophenol	<MDL	100	260
2,4-Dichlorophenol	<MDL	30	65
2,4-Dimethylphenol	<MDL	30	65
2,4-Dinitrophenol	<MDL	60	130
2,4-Dinitrotoluene	<MDL	10	26
2,6-Dinitrotoluene	<MDL	10	26
2-Chloronaphthalene	<MDL	20	32
2-Chlorophenol	<MDL	60	130
2-Methylnaphthalene	<MDL	50	97
2-Methylphenol	<MDL	30	65
2-Nitroaniline	<MDL	100	190
2-Nitrophenol	<MDL	30	65
3,3'-Dichlorobenzidine	<MDL	30	65
3-Nitroaniline	<MDL	100	190
4,6-Dinitro-O-Cresol	<MDL	60	130
4-Bromophenyl Phenyl Ether	<MDL	10	19
4-Chloro-3-Methylphenol	<MDL	60	130
4-Chloroaniline	<MDL	60	130
4-Chlorophenyl Phenyl Ether	<MDL	20	32
4-Methylphenol	<MDL	30	65
4-Nitroaniline	<MDL	100	190
4-Nitrophenol	<MDL	60	130
Acenaphthene	91	10	26
Acenaphthylene	<MDL	20	32
Aniline	<MDL	60	130
Anthracene	110	20	32
Benzidine	<MDL	800	1600
Benzo(a)anthracene	390	20	32
Benzo(a)pyrene	400	30	65
Benzo(b)fluoranthene	390	50	97
Benzo(g,h,i)perylene	130	30	65
Benzo(k)fluoranthene	290	50	97
Benzoic Acid	300	100	190
Benzyl Alcohol	<MDL	30	65
Benzyl Butyl Phthalate	82	20	32
Bis(2-Chloroethoxy)Methane	<MDL	30	65
Bis(2-Chloroethyl)Ether	<MDL	20	32
Bis(2-Chloroisopropyl)Ether	<MDL	60	130
Bis(2-Ethylhexyl)Phthalate	2900	20	32
Chrysene	520	20	32
Di-N-Butyl Phthalate	<MDL	30	65
Di-N-Octyl Phthalate	<MDL	20	32
Dibenzo(a,h)anthracene	<MDL	50	97

1990 Surface Samples (continued)

Station/Locator:	S	LTBD25		
Sampled:		Apr 26, 90		
Lab ID:		9000395		
Matrix:		SALTWTRSED		
% Solids:		77		
Parameters Dry Weight	Value	Qual	MDL	RDL
Dibenzofuran		<MDL	30	65
Diethyl Phthalate		<MDL	30	65
Dimethyl Phthalate		<MDL	10	19
Fluoranthene	1300		20	39
Fluorene	87		20	32
Hexachlorobenzene		<MDL	20	32
Hexachlorobutadiene		<MDL	30	65
Hexachlorocyclopentadiene		<MDL	30	65
Hexachloroethane		<MDL	30	65
Indeno(1,2,3-Cd)Pyrene	170		30	65
Isophorone		<MDL	30	65
N-Nitrosodi-N-Propylamine		<MDL	30	65
N-Nitrosodimethylamine		<MDL	100	190
N-Nitrosodiphenylamine		<MDL	30	65
Naphthalene		<MDL	50	97
Nitrobenzene		<MDL	30	65
Pentachlorophenol		<MDL,L	30	65
Phenanthrene	730		20	32
Phenol		<MDL	100	190
Pyrene	650		20	32
4,4'-DDD		<MDL	6	11
4,4'-DDE		<MDL	6	11
4,4'-DDT		<MDL	6	11
Aldrin		<MDL	6	11
Alpha-BHC		<MDL	6	11
Aroclor 1016		<MDL	60	110
Aroclor 1221		<MDL	60	110
Aroclor 1232		<MDL	60	110
Aroclor 1242		<MDL	60	110
Aroclor 1248		<MDL	60	110
Aroclor 1254		<MDL	60	110
Aroclor 1260		<MDL	60	110
Beta-BHC		<MDL	6	11
Chlordane		<MDL	30	55
Delta-BHC		<MDL	6	11
Dieldrin		<MDL	6	11
Endosulfan I		<MDL	6	11
Endosulfan II		<MDL	6	11
Endosulfan Sulfate		<MDL	6	11
Endrin		<MDL	6	11
Endrin Aldehyde		<MDL	6	11
Gamma-BHC (Lindane)		<MDL	6	11
Heptachlor		<MDL	6	11
Heptachlor Epoxide		<MDL	6	11
Methoxychlor		<MDL	30	55
Toxaphene		<MDL	60	110
1,1,1-Trichloroethane		<MDL	6	13
1,1,2,2-Tetrachloroethane		<MDL	6	13
1,1,2-Trichloroethane		<MDL	6	13
1,1,2-Trichloroethylene		<MDL	6	13
1,1-Dichloroethane		<MDL	6	13
1,1-Dichloroethylene		<MDL	6	13
1,2-Dichloroethane		<MDL	6	13

1990 Surface Samples (continued)

Station/Locator:	S	LTBD25		
Sampled:	Apr 26, 90			
Lab ID:	9000395			
Matrix:	SALTWTRSED			
% Solids:	77			
Parameters Dry Weight	Value	Qual	MDL	RDL
1,2-Dichloropropane		<MDL	6	13
2-Butanone (MEK)		<MDL	40	65
2-Chloroethylvinyl ether		<MDL	6	13
2-Hexanone		<MDL	40	65
4-Methyl-2-Pentanone (MIBK)		<MDL	40	65
Acetone	110		40	65
Acrolein		<MDL	40	65
Acrylonitrile		<MDL	40	65
Benzene		<MDL	6	13
Bromodichloromethane		<MDL	6	13
Bromoform		<MDL	6	13
Bromomethane		<MDL	6	13
Carbon Disulfide		<MDL	6	13
Carbon Tetrachloride		<MDL	6	13
Chlorobenzene		<MDL	6	13
Chlorodibromomethane		<MDL	6	13
Chloroethane		<MDL	6	13
Chloroform		<MDL	6	13
Chloromethane		<MDL	6	13
cis-1,3-Dichloropropene		<MDL	6	13
Ethylbenzene		<MDL	6	13
Methylene Chloride		<MDL	40	65
Styrene		<MDL	6	13
Tetrachloroethylene		<MDL	6	13
Toluene		<MDL	6	13
Total Xylenes		<MDL	6	13
Trans-1,2-Dichloroethylene		<MDL	6	13
Trans-1,3-Dichloropropene		<MDL	6	13
Trichlorofluoromethane		<MDL	6	13
Vinyl Acetate		<MDL	40	65
Vinyl Chloride		<MDL	6	13

1990 Surface Samples (continued)

Station/Locator:	S	LTBD25		
Sampled:	Apr 26, 90			
Lab ID:	9000395			
Matrix:	SALTWTRSED			
% Solids:	77			
Parameters Dry Weight	Value	Qual	MDL	RDL
METALS mg/Kg				
M.Code=CV				
Mercury	1.3			
M.Code=GF				
Antimony	9.1	E,G		
Thallium		<MDL,E,G		3
M.Code=HE				
Arsenic	6.5	G		
Selenium	0.91			
M.Code=PE				
Aluminum	7700	B,E		
Barium	48	B		
Beryllium	0.12	E		
Cadmium	1.4	E,G,L		
Chromium	45	B,E		
Copper	700	E,G		
Iron	13000	B		
Lead	390	E		
Manganese				
Nickel	38			
Silver	6	L		
Zinc	380	B,G,E		
CONVENTIONALS				
Particle size in % phi				
p-2.00				
p-1.00	24	E	0.01	
p+0.00	10	E	0.01	
p+1.00	23	E	0.01	
p+2.00	26	E	0.01	
p+3.00	12	E	0.01	
p+4.00	1.9	E	0.01	
p+5.00	0.92	E	0.01	
p+6.00	0.52	E	0.01	
p+7.00	0.13	E	0.01	
p+8.00		<MDL,E	0.01	
p+9.00	0.02	E	0.01	
p+10.0		<MDL,E	0.01	
p+11.0	0.02	E	0.01	
p+12.0	0.84	E	0.01	
Total Organic Carbon mg/Kg	7800		600	
FIELD DATA				
Storm Or Non-Storm				
Tidal Condition				
Sample Function	SAMP			
Sample Start Time	1230			
Sediment Sampling Range Bottom	15			
Sediment Sampling Range Top	0			

1991 Surface Samples

Station/Locator: Sampled: Lab ID: Matrix: % Solids: Parameters Dry Weight	J LTBC20				K LTBC21			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
1,2,4-Trichlorobenzene	<MDL		20	28	<MDL		10	26
1,2-Dichlorobenzene	<MDL		20	28	<MDL		10	26
1,2-Diphenylhydrazine	<MDL		50	110	<MDL		50	100
1,3-Dichlorobenzene	<MDL		20	28	<MDL		10	26
1,4-Dichlorobenzene	<MDL		20	28	<MDL		10	26
2,4,5-Trichlorophenol	<MDL		100	220	<MDL		100	200
2,4,6-Trichlorophenol	<MDL		100	220	<MDL		100	200
2,4-Dichlorophenol	<MDL		30	55	<MDL		30	50
2,4-Dimethylphenol	<MDL		30	55	<MDL		30	50
2,4-Dinitrophenol	<MDL		50	110	<MDL		50	100
2,4-Dinitrotoluene	<MDL		10	22	<MDL		10	20
2-Choronaphthalene	<MDL		20	28	<MDL		10	26
2-Chlorophenol	<MDL		50	110	<MDL		50	100
2-Methylnaphthalene	<MDL		50	83	<MDL		50	76
2-Methylphenol	<MDL		30	55	<MDL		30	50
2-Nitroaniline	<MDL		80	170	<MDL		80	150
2-Nitrophenol	<MDL		30	55	<MDL		30	50
3-Nitroaniline	<MDL		80	170	<MDL		80	150
4,6-Dinitro-O-Cresol	<MDL		50	110	<MDL		50	100
4-Bromophenyl Phenyl Ether	<MDL		8	17	<MDL		8	15
4-Chloro-3-Methylphenol	<MDL		50	110	<MDL		50	100
4-Chloroaniline	<MDL		50	110	<MDL		50	100
4-Chlorophenyl Phenyl Ether	<MDL		20	28	<MDL		10	26
4-Methylphenol	<MDL		30	55	<MDL		30	50
4-Nitroaniline	<MDL		80	170	<MDL		80	150
4-Nitrophenol	<MDL		50	110	<MDL		50	100
Acenaphthene	<MDL		10	22	<MDL		10	20
Acenaphthylene	<MDL		20	28	<MDL		10	26
Aniline	<MDL		50	110	<MDL		50	100
Anthracene	40		20	28	110		10	26
Benzidine	<MDL		700	1300	<MDL		600	1200
Benzo(a)anthracene	87		20	28	150		10	26
Benzo(a)pyrene	73		30	55	130		30	50
Benzo(b)fluoranthene	100		50	83	150		50	76
Benzo(g,h,i)perylene	<MDL		30	55	61		30	50
Benzo(k)fluoranthene	<MDL		50	83	100		50	76
Benzoic Acid	<MDL		80	170	<MDL		80	150
Benzyl Alcohol	<MDL		30	55	<MDL		30	50
Benzyl Butyl Phthalate	<MDL		20	28	<MDL		10	26
Bis(2-Chloroethoxy)Methane	<MDL		30	55	<MDL		30	50
Bis(2-Chloroethyl)Ether	<MDL		30	55	<MDL		30	50
Bis(2-Chloroisopropyl)Ether	<MDL		50	110	<MDL		50	100
Bis(2-Ethylhexyl)Phthalate	<MDL,B		20	28	520	B	10	26
Chrysene	100		20	28	200		10	26
Di-N-Butyl Phthalate	<MDL,B		30	55	<MDL,B		30	50
Di-N-Octyl Phthalate	<MDL		20	28	<MDL		10	26
Dibenzo(a,h)anthracene	<MDL		50	83	<MDL		50	76
Dibenzofuran	<MDL		30	55	<MDL		30	50
Diethyl Phthalate	<MDL		30	55	<MDL		30	50
Dimethyl Phthalate	<MDL		8	17	<MDL		8	15
Fluoranthene	170		20	33	350		20	30
Fluorene	<MDL		20	28	27		10	26
Hexachlorobenzene	<MDL		20	28	<MDL		10	26
Hexachlorobutadiene	<MDL		30	55	<MDL		30	50

1991 Surface Samples (continued)

Station/Locator:	J LTBC20				K LTBC21			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:			May 28, 91				May 30, 91	
Lab ID:			9101185				9101186	
Matrix:			SALTWTRSED				SALTWTRSED	
% Solids:			60				66	
Parameters Dry Weight								
Hexachlorocyclopentadiene	<MDL		30	55	<MDL		30	50
Hexachloroethane	<MDL		30	55	<MDL		30	50
Indeno(1,2,3-Cd)Pyrene	<MDL		30	55	76		30	50
Isophorone	<MDL		30	55	<MDL		30	50
N-Nitrosodi-N-Propylamine	<MDL		30	55	<MDL		30	50
N-Nitrosodimethylamine	<MDL		80	170	<MDL		80	150
N-Nitrosodiphenylamine	<MDL		30	55	<MDL		30	50
Naphthalene	<MDL		50	83	<MDL		50	76
Nitrobenzene	<MDL		30	55	<MDL		30	50
Pentachlorophenol	<MDL		30	55	<MDL		30	50
Phenanthrene	83		20	28	200		10	26
Phenol	<MDL		80	170	<MDL		80	150
Pyrene	130		20	28	260		10	26
4,4'-DDD	<MDL		2	2.8	<MDL		1	2.6
4,4'-DDE	<MDL		2	2.8	<MDL		1	2.6
4,4'-DDT	<MDL,G		2	2.8	<MDL,G		1	2.6
Aldrin	<MDL		2	2.8	<MDL		1	2.6
Alpha-BHC	<MDL		2	2.8	<MDL		1	2.6
Aroclor 1016	<MDL		10	28	<MDL		10	26
Aroclor 1221	<MDL		10	28	<MDL		10	26
Aroclor 1232	<MDL		10	28	<MDL		10	26
Aroclor 1242	<MDL		10	28	<MDL		10	26
Aroclor 1248	<MDL		10	28	<MDL		10	26
Aroclor 1254	35		10	28	32		10	26
Aroclor 1260	<MDL		10	28	<MDL		10	26
Beta-BHC	<MDL		2	2.8	<MDL		1	2.6
Chlordane	<MDL		7	14	<MDL		6	13
Delta-BHC	<MDL		2	2.8	<MDL		1	2.6
Dieldrin	<MDL		2	2.8	<MDL		1	2.6
Endosulfan I	<MDL		2	2.8	<MDL		1	2.6
Endosulfan II	<MDL		2	2.8	<MDL		1	2.6
Endosulfan Sulfate	<MDL		2	2.8	<MDL		1	2.6
Endrin	<MDL		2	2.8	<MDL		1	2.6
Endrin Aldehyde	<MDL		2	2.8	<MDL		1	2.6
Gamma-BHC (Lindane)	<MDL		2	2.8	<MDL		1	2.6
Heptachlor	<MDL		2	2.8	<MDL		1	2.6
Heptachlor Epoxide	<MDL		2	2.8	<MDL		1	2.6
Methoxychlor	<MDL		7	14	<MDL		6	13
Toxaphene	<MDL		10	28	<MDL		10	26
1,1,1-Trichloroethane	<MDL		3	6.7	<MDL		3	6.1
1,1,2,2-Tetrachloroethane	<MDL		3	6.7	<MDL		3	6.1
1,1,2-Trichloroethane	<MDL		3	6.7	<MDL		3	6.1
1,1,2-Trichloroethylene	<MDL		3	6.7	<MDL		3	6.1
1,1-Dichloroethane	<MDL		3	6.7	<MDL		3	6.1
1,1-Dichloroethylene	<MDL		3	6.7	<MDL		3	6.1
1,2-Dichloroethane	<MDL		3	6.7	<MDL		3	6.1
1,2-Dichloropropane	<MDL		3	6.7	<MDL		3	6.1
2-Butanone (MEK)	<MDL		20	33	<MDL		20	30
2-Chloroethylvinyl ether	<MDL		3	6.7	<MDL		3	6.1
2-Hexanone	<MDL		20	33	<MDL		20	30
4-Methyl-2-Pentanone (MIBK)	<MDL		20	33	<MDL		20	30
Acetone	<MDL		20	33	<MDL		20	30
Acrolein	<MDL		20	33	<MDL		20	30
Acrylonitrile	<MDL		20	33	<MDL		20	30
Benzene	<MDL		3	6.7	<MDL		3	6.1
Bromodichloromethane	<MDL		3	6.7	<MDL		3	6.1

1991 Surface Samples (continued)

Station/Locator: Sampled: Lab ID: Matrix: % Solids: Parameters Dry Weight	J LTBC20				K LTBC21			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Bromoform	<MDL		3	6.7	<MDL		3	6.1
Bromomethane	<MDL		3	6.7	<MDL		3	6.1
Carbon Disulfide	<MDL		3	6.7	<MDL		3	6.1
Carbon Tetrachloride	<MDL		3	6.7	<MDL		3	6.1
Chlorobenzene	<MDL		3	6.7	<MDL		3	6.1
Chlorodibromomethane	<MDL		3	6.7	<MDL		3	6.1
Chloroethane	<MDL		3	6.7	<MDL		3	6.1
Chloroform	<MDL		3	6.7	<MDL		3	6.1
Chloromethane	<MDL		3	6.7	<MDL		3	6.1
cis-1,3-Dichloropropene	<MDL		3	6.7	<MDL		3	6.1
Ethylbenzene	<MDL		3	6.7	<MDL		3	6.1
Methylene Chloride	<MDL		20	33	<MDL		20	30
Styrene	<MDL		3	6.7	<MDL		3	6.1
Tetrachloroethylene	<MDL		3	6.7	<MDL		3	6.1
Toluene	<MDL		3	6.7	<MDL		3	6.1
Total Xylenes	<MDL		3	6.7	<MDL		3	6.1
Trans-1,2-Dichloroethylene	<MDL		3	6.7	<MDL		3	6.1
Trans-1,3-Dichloropropene	<MDL		3	6.7	<MDL		3	6.1
Trichlorofluoromethane	<MDL		3	6.7	<MDL		3	6.1
Vinyl Acetate	<MDL		20	33	<MDL		20	30
Vinyl Chloride	<MDL		3	6.7	<MDL		3	6.1

1991 Surface Samples (continued)

Station/Locator:	J LTBC20				K LTBC21			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
METALS mg/Kg								
M.Code=CV								
Mercury	0.083				0.11			
M.Code=PE								
Aluminum	12000				11000			
Antimony	<MDL,G		5		<MDL,G		5	
Arsenic	12				11			
Barium	37				35			
Beryllium	0.33				0.3			
Cadmium	<MDL		0.3		<MDL		0.3	
Chromium	17	E			15	E		
Copper	62	B			18	B		
Iron	22000				20000			
Lead	13				15			
Nickel	13				12			
Selenium	<MDL		8		<MDL		8	
Silver	0.67				0.76			
Thallium	<MDL		30		<MDL		30	
Zinc	63	B			64	B		
CONVENTIONALS								
Particle Size in % phi								
p-1.00	1	E	1		1	E	1	
p+0.00	1	E	1		1	E	1	
p+1.00	10	E	1		11	E	1	
p+2.00	44	E	1		47	E	1	
p+3.00	25	E	1		28	E	1	
p+4.00	5	E	1		5	E	1	
p+5.00	2	E	1		3	E	1	
p+6.00	1	E	1		<MDL,E		1	
p+7.00	2	E	1		1	E	1	
p+8.00	2	E	1		1	E	1	
p+9.00	1	E	1		<MDL,E		1	
p+10.0	1	E	1		1	E	1	
p+11.0	1	E	1		1	E	1	
p+12.0	1	E	1		<MDL,E		1	
Total Organic Carbon mg/Kg	8100		800		5200		800	
FIELD DATA								
Sample Depth								
Sample Function	SAMP				SAMP			
Sample Start Time	1520				1500			
Sediment Sampling Range Bottom	2				2			
Sediment Sampling Range Top	0				0			

1991 Surface Samples (continued)

Station/Locator:	L LTBC22				M LTBD23			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
1,2,4-Trichlorobenzene	<MDL	10	27		<MDL	10	23	
1,2-Dichlorobenzene	<MDL	10	27		<MDL	10	23	
1,2-Diphenylhydrazine	<MDL	50	110		<MDL	40	92	
1,3-Dichlorobenzene	<MDL	10	27		<MDL	10	23	
1,4-Dichlorobenzene	<MDL	10	27		<MDL	10	23	
2,4,5-Trichlorophenol	<MDL	100	210		<MDL	100	180	
2,4,6-Trichlorophenol	<MDL	100	210		<MDL	100	180	
2,4-Dichlorophenol	<MDL	30	53		<MDL	30	45	
2,4-Dimethylphenol	<MDL	30	53		<MDL	30	45	
2,4-Dinitrophenol	<MDL	50	110		<MDL	40	92	
2,4-Dinitrotoluene	<MDL	10	21		<MDL	10	18	
2,6-Dinitrotoluene	<MDL	10	21		<MDL	10	18	
2-Chloronaphthalene	<MDL	10	27		<MDL	10	23	
2-Chlorophenol	<MDL	50	110		<MDL	40	92	
2-Methylnaphthalene	<MDL	50	81		<MDL	40	68	
2-Methylphenol	<MDL	30	53		<MDL	30	45	
2-Nitroaniline	<MDL	80	160		<MDL	70	140	
2-Nitrophenol	<MDL	30	53		<MDL	30	45	
3-Nitroaniline	<MDL	80	160		<MDL	70	140	
4,6-Dinitro-O-Cresol	<MDL	50	110		<MDL	40	92	
4-Bromophenyl Phenyl Ether	<MDL	8	16		<MDL	7	14	
4-Chloro-3-Methylphenol	<MDL	50	110		<MDL	40	92	
4-Chloroaniline	<MDL	50	110		<MDL	40	92	
4-Chlorophenyl Phenyl Ether	<MDL	10	27		<MDL	10	23	
4-Methylphenol	<MDL	30	53		<MDL	30	45	
4-Nitroaniline	<MDL	80	160		<MDL	70	140	
4-Nitrophenol	<MDL	50	110		<MDL	40	92	
Acenaphthene	<MDL	10	21		<MDL	10	18	
Acenaphthylene	<MDL	10	27		<MDL	10	23	
Aniline	<MDL	50	110		<MDL	40	92	
Anthracene	53	10	27	41		10	23	
Benzidine	<MDL	600	1300		<MDL	500	1100	
Benzo(a)anthracene	120	10	27	38		10	23	
Benzo(a)pyrene	100	30	53		<MDL	30	45	
Benzo(b)fluoranthene	130	50	81		<MDL	40	68	
Benzo(g,h,i)perylene	<MDL	30	53		<MDL	30	45	
Benzo(k)fluoranthene	98	50	81		<MDL	40	68	
Benzoic Acid	<MDL	80	160		<MDL	70	140	
Benzyl Alcohol	<MDL	30	53		<MDL	30	45	
Benzyl Butyl Phthalate	<MDL	10	27		<MDL	10	23	
Bis(2-Chloroethoxy)Methane	<MDL	30	53		<MDL	30	45	
Bis(2-Chloroethyl)Ether	<MDL	30	53		<MDL	30	45	
Bis(2-Chloroisopropyl)Ether	<MDL	50	110		<MDL	40	92	
Bis(2-Ethylhexyl)Phthalate	320	B	10	27	<MDL,B	10	23	
Chrysene	150	10	27	59		10	23	
Di-N-Butyl Phthalate	<MDL,B	30	53		<MDL,B	30	45	
Di-N-Octyl Phthalate	<MDL	10	27		<MDL	10	23	
Dibenzo(a,h)anthracene	<MDL	50	81		<MDL	40	68	
Dibenzofuran	<MDL	30	53		<MDL	30	45	
Diethyl Phthalate	<MDL	30	53		<MDL	30	45	
Dimethyl Phthalate	<MDL	8	16		<MDL	7	14	
Fluoranthene	210	20	32	66		10	27	
Fluorene	<MDL	10	27		<MDL	10	23	
Hexachlorobenzene	<MDL	10	27		<MDL	10	23	
Hexachlorobutadiene	<MDL	30	53		<MDL	30	45	

1991 Surface Samples (continued)

Station/Locator:	L LTBC22				M LTBD23			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:			May 30, 91				May 30, 91	
Lab ID:			9101187				9101188	
Matrix:			SALTWTRSED				SALTWTRSED	
% Solids:			62				73	
Parameters Dry Weight								
Hexachlorocyclopentadiene	<MDL		30	53	<MDL		30	45
Hexachloroethane	<MDL		30	53	<MDL		30	45
Indeno(1,2,3-Cd)Pyrene	60		30	53	<MDL		30	45
Isophorone	<MDL		30	53	<MDL		30	45
N-Nitrosodi-N-Propylamine	<MDL		30	53	<MDL		30	45
N-Nitrosodimethylamine	<MDL		80	160	<MDL		70	140
N-Nitrosodiphenylamine	<MDL		30	53	<MDL		30	45
Naphthalene	<MDL		50	81	<MDL		40	68
Nitrobenzene	<MDL		30	53	<MDL		30	45
Pentachlorophenol	<MDL		30	53	<MDL		30	45
Phenanthrene	120		10	27	38		10	23
Phenol	<MDL		80	160	<MDL		70	140
Pyrene	180		10	27	48		10	23
4,4'-DDD	<MDL		1	2.7	<MDL		1	2.3
4,4'-DDE	<MDL		1	2.7	<MDL		1	2.3
4,4'-DDT	<MDL,G		1	2.7	<MDL,G		1	2.3
Aldrin	<MDL		1	2.7	<MDL		1	2.3
Alpha-BHC	<MDL		1	2.7	<MDL		1	2.3
Aroclor 1016	<MDL		10	27	<MDL		10	23
Aroclor 1221	<MDL		10	27	<MDL		10	23
Aroclor 1232	<MDL		10	27	<MDL		10	23
Aroclor 1242	<MDL		10	27	<MDL		10	23
Aroclor 1248	<MDL		10	27	<MDL		10	23
Aroclor 1254	<MDL		10	27	<MDL		10	23
Aroclor 1260	<MDL		10	27	<MDL		10	23
Beta-BHC	<MDL		1	2.7	<MDL		1	2.3
Chlordane	<MDL		7	13	<MDL		6	11
Delta-BHC	<MDL		1	2.7	<MDL		1	2.3
Dieldrin	<MDL		1	2.7	<MDL		1	2.3
Endosulfan I	<MDL		1	2.7	<MDL		1	2.3
Endosulfan II	<MDL		1	2.7	<MDL		1	2.3
Endosulfan Sulfate	<MDL		1	2.7	<MDL		1	2.3
Endrin	<MDL		1	2.7	<MDL		1	2.3
Endrin Aldehyde	<MDL		1	2.7	<MDL		1	2.3
Gamma-BHC (Lindane)	<MDL		1	2.7	<MDL		1	2.3
Heptachlor	<MDL		1	2.7	<MDL		1	2.3
Heptachlor Epoxide	<MDL		1	2.7	<MDL		1	2.3
Methoxychlor	<MDL		7	13	<MDL		6	11
Toxaphene	<MDL		10	27	<MDL		10	23
1,1,1-Trichloroethane	<MDL		3	6.5	<MDL		3	5.5
1,1,2,2-Tetrachloroethane	<MDL		3	6.5	<MDL		3	5.5
1,1,2-Trichloroethane	<MDL		3	6.5	<MDL		3	5.5
1,1,2-Trichloroethylene	<MDL		3	6.5	<MDL		3	5.5
1,1-Dichloroethane	<MDL		3	6.5	<MDL		3	5.5
1,1-Dichloroethylene	<MDL		3	6.5	<MDL		3	5.5
1,2-Dichloroethane	<MDL		3	6.5	<MDL		3	5.5
1,2-Dichloropropane	<MDL		3	6.5	<MDL		3	5.5
2-Butanone (MEK)	<MDL		20	32	<MDL		10	27
2-Chloroethylvinyl ether	<MDL		3	6.5	<MDL		3	5.5
2-Hexanone	<MDL		20	32	<MDL		10	27
4-Methyl-2-Pentanone (MIBK)	<MDL		20	32	<MDL		10	27
Acetone	<MDL		20	32	<MDL		10	27
Acrolein	<MDL		20	32	<MDL		10	27
Acrylonitrile	<MDL		20	32	<MDL		10	27
Benzene	<MDL		3	6.5	<MDL		3	5.5
Bromodichloromethane	<MDL		3	6.5	<MDL		3	5.5

1991 Surface Samples (continued)

Station/Locator: Sampled: Lab ID: Matrix: % Solids: Parameters	L LTBC22				M LTBD23			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Bromoform	<MDL		3	6.5	<MDL		3	5.5
Bromomethane	<MDL		3	6.5	<MDL		3	5.5
Carbon Disulfide	<MDL		3	6.5	<MDL		3	5.5
Carbon Tetrachloride	<MDL		3	6.5	<MDL		3	5.5
Chlorobenzene	<MDL		3	6.5	<MDL		3	5.5
Chlorodibromomethane	<MDL		3	6.5	<MDL		3	5.5
Chloroethane	<MDL		3	6.5	<MDL		3	5.5
Chloroform	<MDL		3	6.5	<MDL		3	5.5
Chloromethane	<MDL		3	6.5	<MDL		3	5.5
cis-1,3-Dichloropropene	<MDL		3	6.5	<MDL		3	5.5
Ethylbenzene	<MDL		3	6.5	<MDL		3	5.5
Methylene Chloride	<MDL		20	32	<MDL		10	27
Styrene	<MDL		3	6.5	<MDL		3	5.5
Tetrachloroethylene	<MDL		3	6.5	<MDL		3	5.5
Toluene	<MDL		3	6.5	<MDL		3	5.5
Total Xylenes	<MDL		3	6.5	<MDL		3	5.5
Trans-1,2-Dichloroethylene	<MDL		3	6.5	<MDL		3	5.5
Trans-1,3-Dichloropropene	<MDL		3	6.5	<MDL		3	5.5
Trichlorofluoromethane	<MDL		3	6.5	<MDL		3	5.5
Vinyl Acetate	<MDL		20	32	<MDL		10	27
Vinyl Chloride	<MDL		3	6.5	<MDL		3	5.5

1991 Surface Samples (continued)

Station/Locator:	L LTBC22				M LTBD23			
Sampled:	May 30, 91 9101187				May 30, 91 9101188			
Lab ID:	SALTWTRSED				SALTWTRSED			
Matrix:	62				73			
% Solids:	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Parameters Dry Weight								
METALS mg/Kg								
M.Code=CV								
Mercury	0.097				0.055			
M.Code=PE								
Aluminum	12000				9200			
Antimony	<MDL,G	5			<MDL,G	4		
Arsenic	13				9.6			
Barium	40				27			
Beryllium	0.32				0.27			
Cadmium	<MDL	0.3			<MDL	0.5		
Chromium	16	E			13	E		
Copper	19	B			14	B		
Iron	23000				19000			
Lead	15				9.6			
Nickel	15				12			
Selenium	<MDL	8			<MDL	7		
Silver	0.65				<MDL	0.4		
Thallium	<MDL	30			<MDL	30		
Zinc	60	B			45	B		
CONVENTIONALS								
Particle Size in % phi								
p-1.00	1	E	1		2	E	1	
p+0.00	1	E	1		7	E	1	
p+1.00	11	E	1		32	E	1	
p+2.00	53	E	1		34	E	1	
p+3.00	18	E	1		7	E	1	
p+4.00	3	E	1		1	E	1	
p+5.00	3	E	1		12	E	1	
p+6.00	1	E	1		<MDL,E		1	
p+7.00	2	E	1		1	E	1	
p+8.00	2	E	1		1	E	1	
p+9.00	1	E	1		1	E	1	
p+10.0	1	E	1		1	E	1	
p+11.0	1	E	1		<MDL,E		1	
p+12.0	<MDL,E	1			<MDL,E		1	
Total Organic Carbon mg/Kg	7800		800		6900		700	
FIELD DATA								
Sample Depth								
Sample Function	SAMP				SAMP			
Sample Start Time	1420				1400			
Sediment Sampling Range Bottom	2				2			
Sediment Sampling Range Top	0				0			

1991 Surface Samples (continued)

Station/Locator:	S	LTBD25		
Sampled:		Jun 13, 91		
Lab ID:		9101268		
Matrix:		SALTWTRSED		
% Solids:		79		
Parameters Dry Weight	Value	Qual	MDL	RDL
ORGANICS µg/Kg				
1,2,4-Trichlorobenzene	<MDL		10	22
1,2-Dichlorobenzene	<MDL		10	22
1,2-Diphenylhydrazine	<MDL		40	85
1,3-Dichlorobenzene	<MDL		10	22
1,4-Dichlorobenzene	<MDL		10	22
2,4,5-Trichlorophenol	<MDL		90	160
2,4,6-Trichlorophenol	<MDL		90	160
2,4-Dichlorophenol	<MDL		30	42
2,4-Dimethylphenol	<MDL		30	42
2,4-Dinitrophenol	<MDL		40	85
2,4-Dinitrotoluene	<MDL		9	16
2,6-Dinitrotoluene	<MDL		9	16
2-Chloronaphthalene	<MDL		10	22
2-Chlorophenol	<MDL		40	85
2-Methylnaphthalene	<MDL		40	63
2-Methylphenol	<MDL		30	42
2-Nitroaniline	<MDL		60	130
2-Nitrophenol	<MDL		30	42
3-Nitroaniline	<MDL		60	130
4,6-Dinitro-O-Cresol	<MDL		40	85
4-Bromophenyl Phenyl Ether	<MDL		6	13
4-Chloro-3-Methylphenol	<MDL		40	85
4-Chloroaniline	<MDL		40	85
4-Chlorophenyl Phenyl Ether	<MDL		10	22
4-Methylphenol	<MDL		30	42
4-Nitroaniline	<MDL		60	130
4-Nitrophenol	<MDL		40	85
Acenaphthene	71		9	16
Acenaphthylene	<MDL		10	22
Aniline	<MDL		40	85
Anthracene	120		10	22
Benzidine	<MDL		500	1000
Benzo(a)anthracene	460		10	22
Benzo(a)pyrene	380		30	42
Benzo(b)fluoranthene	480		40	63
Benzo(g,h,i)perylene	130		30	42
Benzo(k)fluoranthene	410		40	63
Benzoic Acid	<MDL		60	130
Benzyl Alcohol	<MDL		30	42
Benzyl Butyl Phthalate	140		10	22
Bis(2-Chloroethoxy)Methane	<MDL		30	42
Bis(2-Chloroethyl)Ether	<MDL		30	42
Bis(2-Chloroisopropyl)Ether	<MDL		40	85
Bis(2-Ethylhexyl)Phthalate	1800		10	22
Chrysene	510		10	22
Di-N-Butyl Phthalate	<MDL		30	42
Di-N-Octyl Phthalate	<MDL		10	22
Dibenzo(a,h)anthracene	<MDL		40	63
Dibenzofuran	47		30	42
Diethyl Phthalate	<MDL		30	42
Dimethyl Phthalate	<MDL		6	13
Fluoranthene	350		10	25
Fluorene	91		10	22
Hexachlorobenzene	<MDL		10	22
Hexachlorobutadiene	<MDL		30	42

1991 Surface Samples (continued)

Station/Locator:	S	LTBD25		
Sampled:	Jun 13, 91 9101268			
Lab ID:	SALTWTRSED			
Matrix:	79			
% Solids:				
Parameters Dry Weight	Value	Qual	MDL	RDL
Hexachlorocyclopentadiene		<MDL	30	42
Hexachloroethane		<MDL	30	42
Indeno(1,2,3-Cd)Pyrene	160		30	42
Isophorone		<MDL	30	42
N-Nitrosodi-N-Propylamine		<MDL	30	42
N-Nitrosodimethylamine		<MDL	60	130
N-Nitrosodiphenylamine		<MDL	30	42
Naphthalene		<MDL	40	63
Nitrobenzene		<MDL	30	42
Pentachlorophenol		<MDL	30	42
Phenanthrene	840		10	22
Phenol		<MDL	60	130
Pyrene	630		10	22
4,4'-DDD		<MDL	3	4.2
4,4'-DDE		<MDL	3	4.2
4,4'-DDT		<MDL,G	3	4.2
Aldrin		<MDL	3	4.2
Alpha-BHC		<MDL	3	4.2
Aroclor 1016		<MDL	30	42
Aroclor 1221		<MDL	30	42
Aroclor 1232		<MDL	30	42
Aroclor 1242		<MDL	30	42
Aroclor 1248		<MDL	30	42
Aroclor 1254	52		30	42
Aroclor 1260		<MDL	30	42
Beta-BHC		<MDL	3	4.2
Chlordane		<MDL	10	22
Delta-BHC		<MDL	3	4.2
Dieldrin		<MDL	3	4.2
Endosulfan I		<MDL	3	4.2
Endosulfan II		<MDL	3	4.2
Endosulfan Sulfate		<MDL	3	4.2
Endrin		<MDL	3	4.2
Endrin Aldehyde		<MDL	3	4.2
Gamma-BHC (Lindane)		<MDL	3	4.2
Heptachlor		<MDL	3	4.2
Heptachlor Epoxide		<MDL	3	4.2
Methoxychlor		<MDL	10	22
Toxaphene		<MDL	30	42
1,1,1-Trichloroethane		<MDL	1	2.5
1,1,2,2-Tetrachloroethane		<MDL	1	2.5
1,1,2-Trichloroethane		<MDL	1	2.5
1,1,2-Trichloroethylene		<MDL	1	2.5
1,1-Dichloroethane		<MDL	1	2.5
1,1-Dichloroethylene		<MDL	1	2.5
1,2-Dichloroethane		<MDL	1	2.5
1,2-Dichloropropane		<MDL	1	2.5
2-Butanone (MEK)		<MDL	6	13
2-Chloroethylvinyl ether		<MDL	1	2.5
2-Hexanone		<MDL	6	13
4-Methyl-2-Pentanone (MIBK)		<MDL	6	13
Acetone		<MDL	6	13
Acrolein		<MDL	6	13
Acrylonitrile		<MDL	6	13
Benzene		<MDL	1	2.5
Bromodichloromethane		<MDL	1	2.5

1991 Surface Samples (continued)

Station/Locator:	S	LTBD25		
Sampled:	Jun 13, 91 9101268			
Lab ID:	SALTWTRSED			
Matrix:	79			
% Solids:				
Parameters Dry Weight	Value	Qual	MDL	RDL
Bromoform	<MDL		1	2.5
Bromomethane	<MDL		1	2.5
Carbon Disulfide	<MDL		1	2.5
Carbon Tetrachloride	<MDL		1	2.5
Chlorobenzene	<MDL		1	2.5
Chlorodibromomethane	<MDL		1	2.5
Chloroethane	<MDL		1	2.5
Chloroform	<MDL		1	2.5
Chloromethane	<MDL		1	2.5
cis-1,3-Dichloropropene	<MDL		1	2.5
Ethylbenzene	<MDL		1	2.5
Methylene Chloride	<MDL		6	13
Styrene	<MDL		1	2.5
Tetrachloroethylene	<MDL		1	2.5
Toluene	<MDL		1	2.5
Total Xylenes	<MDL		1	2.5
Trans-1,2-Dichloroethylene	<MDL		1	2.5
Trans-1,3-Dichloropropene	<MDL		1	2.5
Trichlorofluoromethane	<MDL		1	2.5
Vinyl Acetate	<MDL		6	13
Vinyl Chloride	<MDL		1	2.5

1991 Surface Samples (continued)

Station/Locator:	S	LTBD25		
Sampled:	Jun 13, 91 9101268			
Lab ID:	SALTWTRSED			
Matrix:	79			
% Solids:				
Parameters Dry Weight	Value	Qual	MDL	RDL
METALS mg/Kg				
M.Code=CV				
Mercury	0.57			
M.Code=PE				
Aluminum	7700			
Antimony	6.3	G		
Arsenic	7.6			
Barium	48			
Beryllium	0.25			
Cadmium	1.3			
Chromium	38	E		
Copper	410	B		
Iron	14000			
Lead	700			
Nickel	37			
Selenium	<MDL		6	
Silver	19			
Thallium	<MDL		30	
Zinc	230	B		
CONVENTIONALS				
Particle Size in % phi				
p-1.00	27	E	1	
p+0.00	8	E	1	
p+1.00	11	E	1	
p+2.00	21	E	1	
p+3.00	29	E	1	
p+4.00	2	E	1	
p+5.00	1	E	1	
p+6.00	<MDL,E		1	
p+7.00	<MDL,E		1	
p+8.00	<MDL,E		1	
p+9.00	<MDL,E		1	
p+10.0	<MDL,E		1	
p+11.0	<MDL,E		1	
p+12.0	<MDL,E		1	
Total Organic Carbon mg/Kg	17000		600	
FIELD DATA				
Sample Depth	3			
Sample Function	SAMP			
Sample Start Time	1200			
Sediment Sampling Range Bottom	15			
Sediment Sampling Range Top	0			

1992 Surface Samples

Station/Locator:	J LTBC20				K LTBC21			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
Bis(2-Chloroethyl)Ether					<MDL		10	28
1,2,4-Trichlorobenzene	<MDL,G		10	25	<MDL,G		10	28
1,2-Dichlorobenzene	<MDL		10	25	<MDL		10	28
1,2-Diphenylhydrazine	<MDL		40	99	<MDL		50	110
1,3-Dichlorobenzene	<MDL		10	25	<MDL		10	28
1,4-Dichlorobenzene	<MDL,G		10	25	<MDL,G		10	28
2,4,5-Trichlorophenol	<MDL		100	190	<MDL		100	210
2,4,6-Trichlorophenol	<MDL		100	190	<MDL		100	210
2,4-Dichlorophenol	<MDL		30	49	<MDL		30	54
2,4-Dimethylphenol	<MDL		30	49	<MDL		30	54
2,4-Dinitrophenol	<MDL		40	99	<MDL		50	110
2,4-Dinitrotoluene	<MDL		10	19	<MDL		10	21
2,6-Dinitrotoluene	<MDL		10	19	<MDL		10	21
2-Chloronaphthalene	<MDL		10	25	<MDL		10	28
2-Chlorophenol	<MDL		40	99	<MDL		50	110
2-Methylnaphthalene	<MDL		40	74	<MDL		50	82
2-Methylphenol	<MDL		30	49	<MDL		30	54
2-Nitroaniline	<MDL		70	150	<MDL		80	160
2-Nitrophenol	<MDL		30	49	<MDL		30	54
3,3'-Dichlorobenzidine	<MDL		30	49	<MDL		30	54
3-Nitroaniline	<MDL		70	150	<MDL		80	160
4,6-Dinitro-O-Cresol	<MDL		40	99	<MDL		50	110
4-Bromophenyl Phenyl Ether	<MDL		7	15	<MDL		8	16
4-Chloro-3-Methylphenol	<MDL		40	99	<MDL		50	110
4-Chloroaniline	<MDL		40	99	<MDL		50	110
4-Chlorophenyl Phenyl Ether	<MDL		10	25	<MDL		10	28
4-Methylphenol	<MDL		30	49	<MDL		30	54
4-Nitroaniline	<MDL		70	150	<MDL		80	160
4-Nitrophenol	<MDL		40	99	<MDL		50	110
Acenaphthene	<MDL		10	19	10	<RDL	10	21
Acenaphthylene	<MDL		10	25	<MDL		10	28
Aniline	<MDL		40	99	<MDL		50	110
Anthracene	69		10	25	120		10	28
Benzidine		<MDL	600	1200		<MDL	700	1300
Benzo(a)anthracene	120		10	25	230		10	28
Benzo(a)pyrene	100		30	49	210		30	54
Benzo(b)fluoranthene	150		40	74	280		50	82
Benzo(g,h,i)perylene	120		30	49	140		30	54
Benzo(k)fluoranthene	79		40	74	120		50	82
Benzoic Acid		<MDL	70	150		<MDL	80	160
Benzyl Alcohol		<MDL	30	49		<MDL	30	54
Benzyl Butyl Phthalate		<MDL	10	25	38		10	28
Bis(2-Chloroethoxy)Methane		<MDL	30	49		<MDL	30	54
Bis(2-Chloroisopropyl)Ether		<MDL	40	99		<MDL	50	110
Bis(2-Ethylhexyl)Phthalate	590	B	10	25	1000	B	10	28
Carbazole		<MDL	30	49	61		30	54
Chrysene	150		10	25	310		10	28
Coprostanol	820		70	150	1100		80	160
Di-N-Butyl Phthalate		<MDL,B	30	49		<MDL,B	30	54
Di-N-Octyl Phthalate		<MDL	10	25		<MDL	10	28
Dibenzo(a,h)anthracene		<MDL	40	74		<MDL	50	82
Dibenzofuran		<MDL	30	49		<MDL	30	54
Diethyl Phthalate		<MDL	30	49		<MDL	30	54
Dimethyl Phthalate		<MDL	7	15		<MDL	8	16
Fluoranthene	250		10	29	410		20	33

1992 Surface Samples (continued)

Station/Locator:	J LTBC20				K LTBC21			
	May 26, 92 9201091 SALTWTRSED 68				May 26, 92 9201092 SALTWTRSED 61			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Fluorene	10	<MDL	10	25	33		10	28
Hexachlorobenzene		<MDL	10	25		<MDL	10	28
Hexachlorobutadiene		<MDL	30	49		<MDL	30	54
Hexachlorocyclopentadiene		<MDL	30	49		<MDL	30	54
Hexachloroethane		<MDL	30	49		<MDL	30	54
Indeno(1,2,3-Cd)Pyrene	94		30	49	120		30	54
Isophorone		<MDL	30	49		<MDL	30	54
N-Nitrosodi-N-Propylamine		<MDL	30	49		<MDL	30	54
N-Nitrosodimethylamine		<MDL	70	150		<MDL	80	160
N-Nitrosodiphenylamine		<MDL,B	30	49		<MDL,B	30	54
Naphthalene		<MDL	40	74		<MDL	50	82
Nitrobenzene		<MDL	30	49		<MDL	30	54
Pentachlorophenol		<MDL	30	49		<MDL	30	54
Phenanthrene	150		10	25	260		10	28
Phenol		<MDL	70	150		<MDL	80	160
Pyrene	350		10	25	340		10	28
Gamma-BHC (Lindane)		<MDL,X	3	4.9		<MDL,X	3	5.4
4,4'-DDD		<MDL	3	4.9		<MDL	3	5.6
4,4'-DDE		<MDL	3	4.9		<MDL	3	5.6
4,4'-DDT		<MDL	3	4.9		<MDL	3	5.6
Aldrin		<MDL,L	3	4.9		<MDL,L	3	5.6
Alpha-BHC		<MDL	3	4.9		<MDL	3	5.6
Aroclor 1016		<MDL	30	49		<MDL	30	54
Aroclor 1221		<MDL	30	49		<MDL	30	54
Aroclor 1232		<MDL	30	49		<MDL	30	54
Aroclor 1242		<MDL	30	49		<MDL	30	54
Aroclor 1248		<MDL	30	49		<MDL	30	54
Aroclor 1254		<MDL	30	49	160		30	54
Aroclor 1260		<MDL	30	49		<MDL	30	54
Beta-BHC		<MDL	3	4.9		<MDL	3	5.6
Chlordane		<MDL	10	25		<MDL	10	28
Delta-BHC		<MDL	3	4.9		<MDL	3	5.6
Dieldrin		<MDL	3	4.9		<MDL	3	5.6
Endosulfan I		<MDL	3	4.9		<MDL	3	5.6
Endosulfan II		<MDL	3	4.9		<MDL	3	5.6
Endosulfan Sulfate		<MDL	3	4.9		<MDL	3	5.6
Endrin		<MDL,L	3	4.9		<MDL,L	3	5.6
Endrin Aldehyde		<MDL	3	4.9		<MDL	3	5.6
Heptachlor		<MDL,X	3	4.9		<MDL,X	3	5.6
Heptachlor Epoxide		<MDL	3	4.9		<MDL	3	5.6
Methoxychlor		<MDL	10	25		<MDL	10	28
Toxaphene		<MDL	30	49		<MDL	30	54
1,1,1-Trichloroethane		<MDL	7	15		<MDL	8	16
1,1,2,2-Tetrachloroethane		<MDL	7	15		<MDL	8	16
1,1,2-Trichloroethane		<MDL	7	15		<MDL	8	16
1,1,2-Trichloroethylene		<MDL	7	15		<MDL	8	16
1,1-Dichloroethane		<MDL	7	15		<MDL	8	16
1,1-Dichloroethylene		<MDL	7	15		<MDL	50	82
1,2-Dichloroethane		<MDL	7	15		<MDL	8	16
1,2-Dichloropropane		<MDL	7	15		<MDL	8	16
2-Butanone (MEK)		<MDL	40	74		<MDL	50	82
2-Chloroethylvinyl ether		<MDL	7	15		<MDL	8	16
2-Hexanone		<MDL	40	74		<MDL	50	82
4-Methyl-2-Pentanone (MIBK)		<MDL	40	74		<MDL	50	82
Acetone		<MDL	40	74		<MDL	50	82
Acrolein		<MDL	40	74		<MDL	50	82

1992 Surface Samples (continued)

Station/Locator:	J LTBC20				K LTBC21					
	Value	May 26, 92 9201091	Qual	MDL	RDL	Value	May 26, 92 9201092	Qual	MDL	RDL
Sampled:		SALTWTRSED					SALTWTRSED			
Lab ID:		68					61			
Matrix:										
% Solids:										
Parameters Dry Weight										
Acrylonitrile	<MDL	40		74		<MDL	50		82	
Benzene	<MDL	7		15		<MDL	8		16	
Bromodichloromethane	<MDL	7		15		<MDL	8		16	
Bromoform	<MDL	7		15		<MDL	8		16	
Bromomethane	<MDL	7		15		<MDL	8		16	
Carbon Disulfide	<MDL	7		15		<MDL	8		16	
Carbon Tetrachloride	<MDL	7		15		<MDL	8		16	
Chlorobenzene	<MDL	7		15		<MDL	8		16	
Chlorodibromomethane	<MDL	7		15		<MDL	8		16	
Chloroethane	<MDL	7		15		<MDL	8		16	
Chloroform	<MDL	7		15		<MDL	8		16	
Chloromethane	<MDL	7		15		<MDL	8		16	
cis-1,3-Dichloropropene	<MDL	7		15		<MDL	8		16	
Ethylbenzene	<MDL	7		15		<MDL	8		16	
Methylene Chloride	<MDL	40		74		<MDL	50		82	
Styrene	<MDL	7		15		<MDL	8		16	
Tetrachloroethylene	<MDL	7		15		<MDL	8		16	
Toluene	<MDL	7		15		<MDL	8		16	
Total Xylenes	<MDL	7		15		<MDL	8		16	
Trans-1,2-Dichloroethylene	<MDL	7		15		<MDL	8		16	
Trans-1,3-Dichloropropene	<MDL	7		15		<MDL	8		16	
Trichlorofluoromethane	<MDL	7		15		<MDL	8		16	
Vinyl Acetate	<MDL	40		74		<MDL	50		82	
Vinyl Chloride	<MDL	7		15		<MDL	8		16	
METALS mg/Kg										
	M.Code=CV									
Mercury	0.16					0.2				
	M.Code=PE									
Aluminum	9900					11000				
Antimony	1.5	G				1.6	G			
Arsenic	4.4	E				4.9	E			
Barium	34	B				36	B			
Beryllium	0.29					0.33				
Cadmium	0.15	E				0.33	E			
Chromium	13					18				
Copper	18					26				
Iron	16000					16000				
Lead	12					23				
Nickel	12					15				
Selenium	<MDL	1				<MDL	2			
Silver	0.96					2				
Thallium	10					9.8				
Zinc	51					66				

1992 Surface Samples (continued)

Station/Locator:	J	LTBC20			K	LTBC21			
Sampled:		May 26, 92 9201091				May 26, 92 9201092			
Lab ID:		SALTWTRSED 68				SALTWTRSED 61			
Matrix:									
% Solids:		Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Parameters Dry Weight									
CONVENTIONALS									
Particle Size in % phi									
p-1.00	1.1	E	0.1			1.5	E	0.1	
p+0.00	2.5	E	0.1			1.5	E	0.1	
p+1.00	17	E	0.1			11	E	0.1	
p+2.00	49	E	0.1			47	E	0.1	
p+3.00	20	E	0.1			22	E	0.1	
p+4.00	3	E	0.1			4.5	E	0.1	
p+5.00	2	E	0.1			3.7	E	0.1	
p+6.00	1.4	E	0.1			2.7	E	0.1	
p+7.00	1	E	0.1			1.7	E	0.1	
p+8.00	0.71	E	0.1			1.1	E	0.1	
p+9.00	0.31	E	0.1			0.77	E	0.1	
p+10.0	<MDL,E		0.1			0.33	E	0.1	
p+11.0	<MDL,E		0.1			<MDL,E		0.1	
p+12.0	1.5	E	0.1			1.8	E	0.1	
Total Organic Carbon mg/Kg	33000		700			28000		800	
FIELD DATA									
Sample Depth	13					13.5			
Sediment Type									
Vertical Distance									
Vertical Distance									
Sample Function	SAMP					SAMP			
Sample Start Time	1041					1137			
Sampling Range Bottom	2					2			
Sampling Range Top	0					0			

1992 Surface Samples (continued)

Station/Locator:	L LTBC22				M LTBD23			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
Bis(2-Chloroethyl)Ether	<MDL		10	25	<MDL		10	24
1,2,4-Trichlorobenzene	<MDL,G		10	25	<MDL,G		10	24
1,2-Dichlorobenzene	<MDL		10	25	<MDL		10	24
1,2-Diphenylhydrazine	<MDL		40	100	<MDL		40	94
1,3-Dichlorobenzene	<MDL		10	25	<MDL		10	24
1,4-Dichlorobenzene	<MDL,G		10	25	<MDL,G		10	24
2,4,5-Trichlorophenol	<MDL		100	190	<MDL		100	180
2,4,6-Trichlorophenol	<MDL		100	190	<MDL		100	180
2,4-Dichlorophenol	<MDL		30	49	<MDL		30	46
2,4-Dimethylphenol	<MDL		30	49	<MDL		30	46
2,4-Dinitrophenol	<MDL		40	100	<MDL		40	94
2,4-Dinitrotoluene	<MDL		10	19	<MDL		10	18
2,6-Dinitrotoluene	<MDL		10	19	<MDL		10	18
2-Chloronaphthalene	<MDL		10	25	<MDL		10	24
2-Chlorophenol	<MDL		40	100	<MDL		40	94
2-Methylnaphthalene	<MDL		40	75	<MDL		40	70
2-Methylphenol	<MDL		30	49	<MDL		30	46
2-Nitroaniline	<MDL		70	150	<MDL		70	140
2-Nitrophenol	<MDL		30	49	<MDL		30	46
3,3'-Dichlorobenzidine	<MDL		30	49	<MDL		30	46
3-Nitroaniline	<MDL		70	150	<MDL		70	140
4,6-Dinitro-O-Cresol	<MDL		40	100	<MDL		40	94
4-Bromophenyl Phenyl Ether	<MDL		7	15	<MDL		7	14
4-Chloro-3-Methylphenol	<MDL		40	100	<MDL		40	94
4-Chloroaniline	<MDL		40	100	<MDL		40	94
4-Chlorophenyl Phenyl Ether	<MDL		10	25	<MDL		10	24
4-Methylphenol	<MDL		30	49	<MDL		30	46
4-Nitroaniline	<MDL		70	150	<MDL		70	140
4-Nitrophenol	<MDL		40	100	<MDL		40	94
Acenaphthene	<MDL		10	19	<MDL		10	18
Acenaphthylene	<MDL		10	25	<MDL		10	24
Aniline	<MDL		40	100	<MDL		40	94
Anthracene	78		10	25	150		10	24
Benzidine	<MDL		600	1200	<MDL		600	1100
Benzo(a)anthracene	140		10	25	110		10	24
Benzo(a)pyrene	140		30	49	89		30	46
Benzo(b)fluoranthene	180		40	75	150		40	70
Benzo(g,h,i)perylene	76		30	49	51		30	46
Benzo(k)fluoranthene	110		40	75	60	<RDL	40	70
Benzoic Acid	<MDL		70	150	<MDL		70	140
Benzyl Alcohol	<MDL		30	49	<MDL		30	46
Benzyl Butyl Phthalate	<MDL		10	25	<MDL		10	24
Bis(2-Chloroethoxy)Methane	<MDL		30	49	<MDL		30	46
Bis(2-Chloroisopropyl)Ether	<MDL		40	100	<MDL		40	94
Bis(2-Ethylhexyl)Phthalate	460	B	10	25	310	B	10	24
Carbazole	<MDL		30	49	<MDL		30	46
Chrysene	210		10	25	170		10	24
Coprostanol	520		70	150	<MDL		70	140
Di-N-Butyl Phthalate	<MDL,B		30	49	<MDL,B		30	46
Di-N-Octyl Phthalate	<MDL		10	25	<MDL		10	24
Dibenzo(a,h)anthracene	<MDL		40	75	<MDL		40	70
Dibenzofuran	<MDL		30	49	<MDL		30	46
Diethyl Phthalate	<MDL		30	49	<MDL		30	46
Dimethyl Phthalate	<MDL		7	15	<MDL		7	14
Fluoranthene	280		10	30	230		10	28

1992 Surface Samples (continued)

Station/Locator:	L LTBC22				M LTBD23			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Sampled:			May 26, 92				May 26, 92	
Lab ID:			9201094				9201095	
Matrix:			SALTWTRSED				SALTWTRSED	
% Solids:			67				71	
Parameters Dry Weight								
Fluorene	10	<RDL	10	25	10	<RDL	10	24
Hexachlorobenzene		<MDL	10	25		<MDL	10	24
Hexachlorobutadiene		<MDL	30	49		<MDL	30	46
Hexachlorocyclopentadiene		<MDL	30	49		<MDL	30	46
Hexachloroethane		<MDL	30	49		<MDL	30	46
Indeno(1,2,3-Cd)Pyrene	85		30	49	55		30	46
Isophorone		<MDL	30	49		<MDL	30	46
N-Nitrosodi-N-Propylamine		<MDL	30	49		<MDL	30	46
N-Nitrosodimethylamine		<MDL	70	150		<MDL	70	140
N-Nitrosodiphenylamine		<MDL,B	30	49		<MDL,B	30	46
Naphthalene		<MDL	40	75		<MDL	40	70
Nitrobenzene		<MDL	30	49		<MDL	30	46
Pentachlorophenol		<MDL	30	49		<MDL	30	46
Phenanthrene	140		10	25	120		10	24
Phenol		<MDL	70	150		<MDL	70	140
Pyrene	210		10	25	150		10	24
Gamma-BHC (Lindane)		<MDL,X	3	4.9		<MDL,X	2	4.6
4,4'-DDD		<MDL	3	4.9		<MDL	2	4.6
4,4'-DDE		<MDL	3	4.9		<MDL	2	4.6
4,4'-DDT		<MDL	3	4.9		<MDL	2	4.6
Aldrin		<MDL,L	3	4.9		<MDL,L	2	4.6
Alpha-BHC		<MDL	3	4.9		<MDL	2	4.6
Aroclor 1016		<MDL	30	49		<MDL	20	46
Aroclor 1221		<MDL	30	49		<MDL	20	46
Aroclor 1232		<MDL	30	49		<MDL	20	46
Aroclor 1242		<MDL	30	49		<MDL	20	46
Aroclor 1248		<MDL	30	49		<MDL	20	46
Aroclor 1254	120		30	49	52		20	46
Aroclor 1260		<MDL	30	49		<MDL	20	46
Beta-BHC		<MDL	3	4.9		<MDL	2	4.6
Chlordane		<MDL	10	25		<MDL	10	24
Delta-BHC		<MDL	3	4.9		<MDL	2	4.6
Dieldrin		<MDL	3	4.9		<MDL	2	4.6
Endosulfan I		<MDL	3	4.9		<MDL	2	4.6
Endosulfan II		<MDL	3	4.9		<MDL	2	4.6
Endosulfan Sulfate		<MDL	3	4.9		<MDL	2	4.6
Endrin		<MDL,L	3	4.9		<MDL,L	2	4.6
Endrin Aldehyde		<MDL	3	4.9		<MDL	2	4.6
Heptachlor		<MDL,X	3	4.9		<MDL,X	2	4.6
Heptachlor Epoxide		<MDL	3	4.9		<MDL	2	4.6
Methoxychlor		<MDL	10	25		<MDL	10	24
Toxaphene		<MDL	30	49		<MDL	20	46
1,1,1-Trichloroethane		<MDL	7	15		<MDL	7	14
1,1,2,2-Tetrachloroethane		<MDL	7	15		<MDL	7	14
1,1,2-Trichloroethane		<MDL	7	15		<MDL	7	14
1,1,2-Trichloroethylene		<MDL	7	15		<MDL	7	14
1,1-Dichloroethane		<MDL	7	15		<MDL	7	14
1,1-Dichloroethylene		<MDL	7	15		<MDL	7	14
1,2-Dichloroethane		<MDL	7	15		<MDL	7	14
1,2-Dichloropropane		<MDL	7	15		<MDL	7	14
2-Butanone (MEK)		<MDL	40	75		<MDL	40	70
2-Chloroethylvinyl ether		<MDL	7	15		<MDL	7	14
2-Hexanone		<MDL	40	75		<MDL	40	70
4-Methyl-2-Pentanone (MIBK)		<MDL	40	75		<MDL	40	70
Acetone		<MDL	40	75		<MDL	40	70
Acrolein		<MDL	40	75		<MDL	40	70

1992 Surface Samples (continued)

Station/Locator:	L				M				LTBD23					
	LTBC22				LTBD23				LTBD23					
Sampled:	May 26, 92 9201094				Sampled:	May 26, 92 9201095				Sampled:	SALTWTRSED 71			
Lab ID:	SALTWTRSED 67				Lab ID:	SALTWTRSED 71				Lab ID:	SALTWTRSED 71			
Matrix:					Matrix:					Matrix:				
% Solids:					% Solids:					% Solids:				
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL		
Acrylonitrile	<MDL		40	75	<MDL		40	70	<MDL		40	70		
Benzene	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Bromodichloromethane	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Bromoform	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Bromomethane	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Carbon Disulfide	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Carbon Tetrachloride	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Chlorobenzene	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Chlorodibromomethane	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Chloroethane	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Chloroform	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Chloromethane	<MDL		7	15	<MDL		7	14	<MDL		7	14		
cis-1,3-Dichloropropene	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Ethylbenzene	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Methylene Chloride	<MDL		40	75	<MDL		40	70	<MDL		40	70		
Styrene	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Tetrachloroethylene	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Toluene	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Total Xylenes	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Trans-1,2-Dichloroethylene	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Trans-1,3-Dichloropropene	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Trichlorofluoromethane	<MDL		7	15	<MDL		7	14	<MDL		7	14		
Vinyl Acetate	<MDL		40	75	<MDL		40	70	<MDL		40	70		
Vinyl Chloride	<MDL		7	15	<MDL		7	14	<MDL		7	14		
METALS mg/Kg														
	M.Code=CV													
Mercury	0.075					0.73								
	M.Code=PE													
Aluminum	11000					8500								
Antimony	1.5	G				1.4	G							
Arsenic	6	E				7	E							
Barium	33	B				28	B							
Beryllium	0.3					0.28								
Cadmium	0.15	E				0.13	E							
Chromium	14					12								
Copper	18					17								
Iron	16000					17000								
Lead	13					8.7								
Nickel	13					11								
Selenium	<MDL		3			<MDL		1						
Silver	0.75					0.7								
Thallium	9					11								
Zinc	54					46								

1992 Surface Samples (continued)

Station/Locator:	L LTBC22				M LTBD23			
Sampled:	May 26, 92 9201094				May 26, 92 9201095			
Lab ID:								
Matrix:	SALTWTRSED 67				SALTWTRSED 71			
% Solids:								
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
CONVENTIONALS								
Particle Size in % phi								
p-1.00	0.71	E	0.1		1.2	E	0.1	
p+0.00	1.1	E	0.1		11	E	0.1	
p+1.00	13	E	0.1		33	E	0.1	
p+2.00	56	E	0.1		50	E	0.1	
p+3.00	19	E	0.1		6.7	E	0.1	
p+4.00	2.7	E	0.1		0.96	E	0.1	
p+5.00	1.8	E	0.1		0.3	E	0.1	
p+6.00	1.3	E	0.1		0.1	E	0.1	
p+7.00	1.1	E	0.1		0.1	E	0.1	
p+8.00	1	E	0.1		0.32	E	0.1	
p+9.00	0.5	E	0.1		0.3	E	0.1	
p+10.0	<MDL,E		0.1		<MDL,E		0.1	
p+11.0	<MDL,E		0.1		<MDL,E		0.1	
p+12.0	1.6	E	0.1		1.1	E	0.1	
Total Organic Carbon mg/Kg	37000		700		13000		700	
FIELD DATA								
Sample Depth	16				13			
Sediment Type								
Vertical Distance								
Vertical Distance								
Sample Function	SAMP				SAMP			
Sample Start Time	1252				1324			
Sampling Range Bottom	2				2			
Sampling Range Top	0				0			

1992 Surface Samples (continued)

Station/Locator:	S	LTBD25			K2	LTBC21		
		Jul 01, 92 9201379			Aug 20, 92 9201595			
Sampled:		SALTWTRSED 75				SALTWTRSED 68		
Lab ID:								
Matrix:								
% Solids:								
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg								
Bis(2-Chloroethyl)Ether	<MDL	10	23		<MDL	10	25	
1,2,4-Trichlorobenzene	<MDL,G	10	23		<MDL,G	10	25	
1,2-Dichlorobenzene	<MDL	10	23		<MDL	10	25	
1,2-Diphenylhydrazine	<MDL	50	89		<MDL	50	99	
1,3-Dichlorobenzene	<MDL	10	23		<MDL	10	25	
1,4-Dichlorobenzene	<MDL,G	10	23		<MDL,G	10	25	
2,4,5-Trichlorophenol	<MDL	90	170		<MDL	100	210	
2,4,6-Trichlorophenol	<MDL	90	170		<MDL	100	210	
2,4-Dichlorophenol	<MDL	20	44		<MDL	30	49	
2,4-Dimethylphenol	<MDL	20	44		<MDL	30	49	
2,4-Dinitrophenol	<MDL	50	89		<MDL	50	99	
2,4-Dinitrotoluene	<MDL	9	17		<MDL	10	21	
2,6-Dinitrotoluene	<MDL	9	17		<MDL	10	21	
2-Chloronaphthalene	<MDL	10	23		<MDL	10	25	
2-Chlorophenol	<MDL,G	50	89		<MDL	50	99	
2-Methylnaphthalene	<MDL	30	67		<MDL	40	74	
2-Methylphenol	<MDL	20	44		<MDL	30	49	
2-Nitroaniline	<MDL	70	130		<MDL	70	150	
2-Nitrophenol	<MDL	20	44		<MDL	30	49	
3,3'-Dichlorobenzidine	<MDL	20	44		<MDL	30	49	
3-Nitroaniline	<MDL	70	130		<MDL	70	150	
4,6-Dinitro-O-Cresol	<MDL	50	89		<MDL	50	99	
4-Bromophenyl Phenyl Ether	<MDL	7	13		<MDL	7	15	
4-Chloro-3-Methylphenol	<MDL,G	50	89		<MDL	50	99	
4-Chloroaniline	<MDL	50	89		<MDL	50	99	
4-Chlorophenyl Phenyl Ether	<MDL	10	23		<MDL	10	25	
4-Methylphenol	<MDL	20	44		<MDL	30	49	
4-Nitroaniline	<MDL	70	130		<MDL	70	150	
4-Nitrophenol	<MDL,X	50	89		<MDL	50	99	
Acenaphthene	<MDL	9	17	10	<RDL	10	21	
Acenaphthylene	<MDL	10	23		<MDL	10	25	
Aniline	<MDL	50	89		<MDL	50	99	
Anthracene	37	10	23	190		10	25	
Benzidine	<MDL	500	1100		<MDL	600	1200	
Benzo(a)anthracene	120	10	23	210		10	25	
Benzo(a)pyrene	<MDL	20	44	160		30	49	
Benzo(b)fluoranthene	170	30	67	240		40	74	
Benzo(g,h,i)perylene	<MDL	20	44	72		30	49	
Benzo(k)fluoranthene	190	30	67	180		40	74	
Benzoic Acid	<MDL	70	130		<MDL	70	150	
Benzyl Alcohol	<MDL	20	44		<MDL	30	49	
Benzyl Butyl Phthalate	<MDL	10	23	65		10	25	
Bis(2-Chloroethoxy)Methane	<MDL	20	44		<MDL	30	49	
Bis(2-Chloroisopropyl)Ether	<MDL	50	89		<MDL	50	99	
Bis(2-Ethylhexyl)Phthalate	870	10	23	1500 B		10	25	
Carbazole	56	20	44	71		30	49	
Chrysene	120	10	23	290		10	25	
Coprostanol	<MDL	70	130		<MDL	70	150	
Di-N-Butyl Phthalate	<MDL,B	20	44		<MDL,B	30	49	
Di-N-Octyl Phthalate	<MDL	10	23		<MDL	10	25	
Dibenzo(a,h)anthracene	<MDL	30	67	40 <RDL		40	74	
Dibenzofuran	<MDL	20	44		<MDL	30	49	
Diethyl Phthalate	<MDL	20	44		<MDL	30	49	
Dimethyl Phthalate	<MDL	7	13		<MDL	7	15	
Fluoranthene	360	10	27	460		10	29	

1992 Surface Samples (continued)

Station/Locator:	S	LTBD25			K2	LTBC21		
		Jul 01, 92 9201379	SALTWTRSED 75		Aug 20, 92 9201595	SALTWTRSED 68		
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Fluorene	<MDL		10	23	51		10	25
Hexachlorobenzene	<MDL		10	23	<MDL		10	25
Hexachlorobutadiene	<MDL		20	44	<MDL		30	49
Hexachlorocyclopentadiene	<MDL		20	44	<MDL		30	49
Hexachloroethane	<MDL		20	44	<MDL		30	49
Indeno(1,2,3-Cd)Pyrene	<MDL		20	44	100		30	49
Isophorone	<MDL		20	44	<MDL		30	49
N-Nitrosodi-N-Propylamine	<MDL,G		20	44	<MDL		30	49
N-Nitrosodimethylamine	<MDL		70	130	<MDL		70	150
N-Nitrosodiphenylamine	<MDL		20	44	<MDL		30	49
Naphthalene	<MDL		30	67	<MDL		40	74
Nitrobenzene	<MDL		20	44	<MDL		30	49
Pentachlorophenol	<MDL		20	44	<MDL,G		30	49
Phenanthrene	190		10	23	250		10	25
Phenol	<MDL		70	130	<MDL		70	150
Pyrene	270		10	23	350		10	25
Gamma-BHC (Lindane)	<MDL		2	4.4				
4,4'-DDD	<MDL		2	4.4				
4,4'-DDE	<MDL		2	4.4				
4,4'-DDT	<MDL		2	4.4				
Aldrin	<MDL		2	4.4				
Alpha-BHC	<MDL		2	4.4				
Aroclor 1016	<MDL		20	44				
Aroclor 1221	<MDL		20	44				
Aroclor 1232	<MDL		20	44				
Aroclor 1242	<MDL		20	44				
Aroclor 1248	<MDL		20	44				
Aroclor 1254	40	<RDL	20	44				
Aroclor 1260	<MDL		20	44				
Beta-BHC	<MDL		2	4.4				
Chlordane	<MDL		10	23				
Delta-BHC	<MDL		2	4.4				
Dieldrin	<MDL		2	4.4				
Endosulfan I	<MDL		2	4.4				
Endosulfan II	<MDL		2	4.4				
Endosulfan Sulfate	<MDL		2	4.4				
Endrin	<MDL		2	4.4				
Endrin Aldehyde	<MDL		2	4.4				
Heptachlor	<MDL		2	4.4				
Heptachlor Epoxide	<MDL		2	4.4				
Methoxychlor	<MDL		10	23				
Toxaphene	<MDL		20	44				
1,1,1-Trichloroethane	<MDL		7	13	<MDL		7	15
1,1,2,2-Tetrachloroethane	<MDL		7	13	<MDL		7	15
1,1,2-Trichloroethane	<MDL		7	13	<MDL		7	15
1,1,2-Trichloroethylene	<MDL		7	13	<MDL		7	15
1,1-Dichloroethane	<MDL		7	13	<MDL		7	15
1,1-Dichloroethylene	<MDL		40	67	<MDL		7	15
1,2-Dichloroethane	<MDL		7	13	<MDL		7	15
1,2-Dichloropropane	<MDL		7	13	<MDL		7	15
2-Butanone (MEK)	<MDL		40	67	<MDL		40	74
2-Chloroethylvinyl ether	<MDL		7	13	<MDL		7	15
2-Hexanone	<MDL		40	67	<MDL		40	74
4-Methyl-2-Pentanone (MIBK)	<MDL		40	67	<MDL		40	74
Acetone	<MDL		40	67	<MDL		40	74
Acrolein	<MDL		40	67	<MDL		40	74

1992 Surface Samples (continued)

Station/Locator:	S				LTBD25				K2				LTBC21			
	Sampled:	Jul 01, 92 9201379			Matrix:	SALTWTRSED 75			Sampled:	Aug 20, 92 9201595			Matrix:	SALTWTRSED 68		
% Solids:					Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Parameters Dry Weight																
Acrylonitrile	<MDL		40	67	<MDL		40	74	<MDL		40	74	<MDL		40	74
Benzene	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Bromodichloromethane	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Bromoform	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Bromomethane	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Carbon Disulfide	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Carbon Tetrachloride	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Chlorobenzene	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Chlorodibromomethane	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Chloroethane	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Chloroform	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Chloromethane	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
cis-1,3-Dichloropropene	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Ethylbenzene	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Methylene Chloride	<MDL		40	67	<MDL		40	74	<MDL		40	74	<MDL		40	74
Styrene	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Tetrachloroethylene	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Toluene	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Total Xylenes	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Trans-1,2-Dichloroethylene	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Trans-1,3-Dichloropropene	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Trichlorofluoromethane	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
Vinyl Acetate	<MDL		40	67	<MDL		40	74	<MDL		40	74	<MDL		40	74
Vinyl Chloride	<MDL		7	13	<MDL		7	15	<MDL		7	15	<MDL		7	15
METALS mg/Kg																
	M.Code=CV															
Mercury	0.71								0.088	E						
	M.Code=PE															
Aluminum	5300								8800							
Antimony	4	G							<MDL,G	4						
Arsenic	5.3								8.8							
Barium	24								37							
Beryllium	0.08								0.29							
Cadmium	1.5								0.29							
Chromium	21	G							13							
Copper	130								19							
Iron	8900								15000							
Lead	280								29							
Nickel	32	G							12							
Selenium	<MDL		3						<MDL	7						
Silver	11								1.3							
Thallium	<MDL		4						<MDL	30						
Zinc	170	G							59							

1992 Surface Samples (continued)

Station/Locator:	S	LTBD25			K2	LTBC21			
Sampled:		Jul 01, 92			Aug 20, 92				
Lab ID:		9201379			9201595				
Matrix:	SALTWTRSED		75			SALTWTRSED		68	
% Solids:									
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	
CONVENTIONALS									
Particle Size in % phi									
p-1.00	7.8	E	0.1		0.88	E	0.1		
p+0.00	2.5	E	0.1		1.9	E	0.1		
p+1.00	5.3	E	0.1		19	E	0.1		
p+2.00	59	E	0.1		53	E	0.1		
p+3.00	21	E	0.1		13	E	0.1		
p+4.00	2.9	E	0.1		3	E	0.1		
p+5.00	<MDL,E		0.1		1	E	0.1		
p+6.00	0.1	E	0.1		2.3	E	0.1		
p+7.00	<MDL,E		0.1		0.65	E	0.1		
p+8.00	<MDL,E		0.1		0.98	E	0.1		
p+9.00	<MDL,E		0.1		0.33	E	0.1		
p+10.0	<MDL,E		0.1		0.57	E	0.1		
p+11.0	<MDL,E		0.1		<MDL,E		0.1		
p+12.0	1.2	E	0.1		2.8	E	0.1		
Total Organic Carbon mg/Kg	4700		700		20000		700		
FIELD DATA									
Sample Depth	1				16				
Sediment Type	33W17				32N10				
Vertical Distance	2				11				
Vertical Distance	2				11				
Sample Function	SAMP				SAMP				
Sample Start Time	1210				1500				
Sampling Range Bottom	15				2				
Sampling Range Top	0				0				

1992 Surface Samples (continued)

Station/Locator:	J2				LTBC20				K Replicate				LTBC21			
	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
ORGANICS µg/Kg																
Bis(2-Chloroethyl)Ether	<MDL		10	23			<MDL		10		26					
1,2,4-Trichlorobenzene	<MDL,G		10	23			<MDL,G		10		26					
1,2-Dichlorobenzene	<MDL		10	23			<MDL		10		26					
1,2-Diphenylhydrazine	<MDL		50	94			<MDL		50		99					
1,3-Dichlorobenzene	<MDL		10	23			<MDL		10		26					
1,4-Dichlorobenzene	<MDL,G		10	23			<MDL,G		10		26					
2,4,5-Trichlorophenol	<MDL		100	200			<MDL		100		200					
2,4,6-Trichlorophenol	<MDL		100	200			<MDL		100		200					
2,4-Dichlorophenol	<MDL		20	46			<MDL		30		51					
2,4-Dimethylphenol	<MDL		20	46			<MDL		30		51					
2,4-Dinitrophenol	<MDL		50	94			<MDL		50		99					
2,4-Dinitrotoluene	<MDL		9	18			<MDL		10		20					
2,6-Dinitrotoluene	<MDL		9	18			<MDL		10		20					
2-Chloronaphthalene	<MDL		10	23			<MDL		10		26					
2-Chlorophenol	<MDL		50	94			<MDL		50		99					
2-Methylnaphthalene	<MDL		40	70			<MDL		50		78					
2-Methylphenol	<MDL		20	46			<MDL		30		51					
2-Nitroaniline	<MDL		70	140			<MDL		80		160					
2-Nitrophenol	<MDL		20	46			<MDL		30		51					
3,3'-Dichlorobenzidine	<MDL		20	46			<MDL		30		51					
3-Nitroaniline	<MDL		70	140			<MDL		80		160					
4,6-Dinitro-O-Cresol	<MDL		50	94			<MDL		50		99					
4-Bromophenyl Phenyl Ether	<MDL		7	14			<MDL		8		16					
4-Chloro-3-Methylphenol	<MDL		50	94			<MDL		50		99					
4-Chloroaniline	<MDL		50	94			<MDL		50		99					
4-Chlorophenyl Phenyl Ether	<MDL		10	23			<MDL		10		26					
4-Methylphenol	<MDL		20	46			<MDL		30		51					
4-Nitroaniline	<MDL		70	140			<MDL		80		160					
4-Nitrophenol	<MDL		30	52			<MDL		50		99					
Acenaphthene	<MDL		9	18		10	<RDL		10		20					
Acenaphthylene	<MDL		10	23			<MDL		10		26					
Aniline	<MDL		50	94			<MDL		50		99					
Anthracene	35		10	23			150		10		26					
Benzidine	<MDL		500	1100			<MDL		600		1200					
Benzo(a)anthracene	62		10	23			190		10		26					
Benzo(a)pyrene	58		20	46			170		30		51					
Benzo(b)fluoranthene	85		40	70			260		50		78					
Benzo(g,h,i)perylene	<MDL		20	46			90		30		51					
Benzo(k)fluoranthene	<MDL		40	70			140		50		78					
Benzoic Acid	<MDL		70	140			<MDL		80		160					
Benzyl Alcohol	<MDL		20	46			<MDL		30		51					
Benzyl Butyl Phthalate	24		10	23			34		10		26					
Bis(2-Chloroethoxy)Methane	<MDL		20	46			<MDL		30		51					
Bis(2-Chloroisopropyl)Ether	<MDL		50	94			<MDL		50		99					
Bis(2-Ethylhexyl)Phthalate	560	B	10	23			890	B	10		26					
Carbazole	<MDL		20	46			75		30		51					
Chrysene	96		10	23			280		10		26					
Coprostanol	<MDL		70	140			960		80		160					
Di-N-Butyl Phthalate	<MDL,B		20	46			<MDL,B		30		51					
Di-N-Octyl Phthalate	<MDL		10	23			<MDL		10		26					
Dibenz(a,h)anthracene	<MDL		40	70			<MDL		50		78					
Dibenzofuran	<MDL		20	46			<MDL		30		51					
Diethyl Phthalate	<MDL		20	46			<MDL		30		51					
Dimethyl Phthalate	<MDL		7	14			<MDL		8		16					
Fluoranthene	150		10	28			450		20		31					

1992 Surface Samples (continued)

Station/Locator:	J2				LTBC20				K Replicate				LTBC21			
	Sampled:	Aug 20, 92 9201596			Matrix:	SALTWTRSED 71			Sampled:	May 26, 92 9201093			Matrix:	SALTWTRSED 64		
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
Fluorene		<MDL	10	23		36					10	26				
Hexachlorobenzene		<MDL	10	23		<MDL					10	26				
Hexachlorobutadiene		<MDL	20	46		<MDL					30	51				
Hexachlorocyclopentadiene		<MDL	20	46		<MDL					30	51				
Hexachloroethane		<MDL	20	46		<MDL					30	51				
Indeno(1,2,3-Cd)Pyrene	40	<RDL	20	46	90						30	51				
Isophorone		<MDL	20	46		<MDL					30	51				
N-Nitrosodi-N-Propylamine		<MDL	20	46		<MDL					30	51				
N-Nitrosodimethylamine		<MDL	70	140		<MDL					80	160				
N-Nitrosodiphenylamine		<MDL	20	46		<MDL,B					30	51				
Naphthalene		<MDL	40	70		<MDL					50	78				
Nitrobenzene		<MDL	20	46		<MDL					30	51				
Pentachlorophenol		<MDL,G	20	46		<MDL					30	51				
Phenanthrene	63		10	23	230						10	26				
Phenol		<MDL	70	140		<MDL					80	160				
Pyrene	99		10	23	250						10	26				
Gamma-BHC (Lindane)						<MDL,X					3	5.1				
4,4'-DDD						<MDL					3	5.1				
4,4'-DDE						<MDL					3	5.1				
4,4'-DDT						<MDL					3	5.1				
Aldrin						<MDL,L					3	5.1				
Alpha-BHC						<MDL					3	5.1				
Aroclor 1016						<MDL					30	51				
Aroclor 1221						<MDL					30	51				
Aroclor 1232						<MDL					30	51				
Aroclor 1242						<MDL					30	51				
Aroclor 1248						<MDL					30	51				
Aroclor 1254						<MDL					30	51				
Aroclor 1260						<MDL					30	51				
Beta-BHC						<MDL					3	5.1				
Chlordane						<MDL					10	26				
Delta-BHC						<MDL					3	5.1				
Dieldrin						<MDL					3	5.1				
Endosulfan I						<MDL					3	5.1				
Endosulfan II						<MDL					3	5.1				
Endosulfan Sulfate						<MDL					3	5.1				
Endrin						<MDL,L					3	5.1				
Endrin Aldehyde						<MDL					3	5.1				
Heptachlor						<MDL,X					3	5.1				
Heptachlor Epoxide						<MDL					3	5.1				
Methoxychlor						<MDL					10	26				
Toxaphene						<MDL					30	51				
1,1,1-Trichloroethane		<MDL	7	14		<MDL					8	16				
1,1,2,2-Tetrachloroethane		<MDL	7	14		<MDL					8	16				
1,1,2-Trichloroethane		<MDL	7	14		<MDL					8	16				
1,1,2-Trichloroethylene		<MDL	7	14		<MDL					8	16				
1,1-Dichloroethane		<MDL	7	14		<MDL					8	16				
1,1-Dichloroethylene		<MDL	40	70		<MDL					50	78				
1,2-Dichloroethane		<MDL	7	14		<MDL					8	16				
1,2-Dichloropropane		<MDL	7	14		<MDL					8	16				
2-Butanone (MEK)		<MDL	40	70		<MDL					50	78				
2-Chloroethylvinyl ether		<MDL	7	14		<MDL					8	16				
2-Hexanone		<MDL	40	70		<MDL					50	78				
4-Methyl-2-Pentanone (MIBK)		<MDL	40	70		<MDL					50	78				
Acetone		<MDL	40	70		<MDL					50	78				
Acrolein		<MDL	7	14		<MDL					50	78				

1992 Surface Samples (continued)

Station/Locator:	J2				LTBC20				K Replicate				LTBC21			
	Aug 20, 92 9201596	SALTWTRSED 71	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	May 26, 92 9201093	SALTWTRSED 64	Value	Qual	MDL	RDL
Acrylonitrile	<MDL		40		70		<MDL		50		78					
Benzene	<MDL		7		14		<MDL		8		16					
Bromodichloromethane	<MDL		7		14		<MDL		8		16					
Bromoform	<MDL		7		14		<MDL		8		16					
Bromomethane	<MDL		7		14		<MDL		8		16					
Carbon Disulfide	<MDL		7		14		<MDL		8		16					
Carbon Tetrachloride	<MDL		7		14		<MDL		8		16					
Chlorobenzene	<MDL		7		14		<MDL		8		16					
Chlorodibromomethane	<MDL		7		14		<MDL		8		16					
Chloroethane	<MDL		7		14		<MDL		8		16					
Chloroform	<MDL		7		14		<MDL		8		16					
Chloromethane	<MDL		7		14		<MDL		8		16					
cis-1,3-Dichloropropene	<MDL		7		14		<MDL		8		16					
Ethylbenzene	<MDL		7		14		<MDL		8		16					
Methylene Chloride	<MDL		7		14		<MDL		50		78					
Styrene	<MDL		7		14		<MDL		8		16					
Tetrachloroethylene	<MDL		7		14		<MDL		8		16					
Toluene	<MDL		7		14		<MDL		8		16					
Total Xylenes	<MDL		7		14		<MDL		8		16					
Trans-1,2-Dichloroethylene	<MDL		40		70		<MDL		8		16					
Trans-1,3-Dichloropropene	<MDL		7		14		<MDL		8		16					
Trichlorofluoromethane	<MDL		7		14		<MDL		8		16					
Vinyl Acetate	<MDL		40		70		<MDL		50		78					
Vinyl Chloride	<MDL		7		14		<MDL		8		16					
METALS mg/Kg																
	M.Code=CV															
Mercury	0.07		E				0.16									
	M.Code=PE															
Aluminum	9000						11000									
Antimony	<MDL	G	4				1.6		G							
Arsenic	13						5.7		E							
Barium	38						33		B							
Beryllium	0.28						0.31									
Cadmium	<MDL		0.3				0.31		E							
Chromium	13						16									
Copper	15						20									
Iron	17000						17000									
Lead	11						16									
Nickel	13						13									
Selenium	<MDL		7				<MDL		2							
Silver	1.1						1.3									
Thallium	<MDL		30				11									
Zinc	49						59									

1992 Surface Samples (continued)

Station/Locator:	J2				LTBC20				K Replicate				LTBC21			
					Aug 20, 92 9201596 SALTWTRSED 71								May 26, 92 9201093 SALTWTRSED 64			
Parameters Dry Weight	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL	Value	Qual	MDL	RDL
CONVENTIONALS																
Particle Size in % phi																
p-1.00		<MDL,E	0.1				0.3	E	0.1							
p+0.00	1.8	E	0.1				1.1	E	0.1							
p+1.00	26	E	0.1				14	E	0.1							
p+2.00	48	E	0.1				52	E	0.1							
p+3.00	13	E	0.1				20	E	0.1							
p+4.00	2.8	E	0.1				2.9	E	0.1							
p+5.00	1	E	0.1				4.4	E	0.1							
p+6.00	2.2	E	0.1				1.9	E	0.1							
p+7.00	1.7	E	0.1				0.97	E	0.1							
p+8.00		<MDL,E	0.1				0.25	E	0.1							
p+9.00	0.5	E	0.1				0.5	E	0.1							
p+10.0	1.1	E	0.1					<MDL,E	0.1							
p+11.0		<MDL,E	0.1					<MDL,E	0.1							
p+12.0	1.4	E	0.1					1.2	E	0.1						
Total Organic Carbon mg/Kg	18000		700				27000		800							
FIELD DATA																
Sample Depth		15					13.5									
Sediment Type		32N10														
Vertical Distance		10														
Vertical Distance		10														
Sample Function		SAMP					FREP									
Sample Start Time		1649														
Sampling Range Bottom		2					2									
Sampling Range Top		0					0									

APPENDIX H

BENTHIC TAXONOMY DATA

Benthic Taxonomy, Station M, Denny Way Sediment Cap

Taxon	1990					1991					1992				
	Replicate					Replicate					Replicate				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Polychaetes															
Ampharete acutifrons						1		2				2	2		
Ampharete finmarchica															
Ampharetidae sp. Indet.															1
Anobothrus gracilis						4	4	1	3	3					
Aphelochaeta multifilis	21	23	27	20	19	28	34	67	60	74	2	4	9	4	5
Aphelochaeta secundus						1						2	1		3
Aricidea catherinae															1
Aricidea lopezi								1		1					
Armandia brevis			1			15	24	10	12	13	7		1	1	2
Artacamella hancocki						1									
Autolytus cornutus								1							
Axiothella rubrocincta													1	1	1
Barantolla americana													1		
Capitella capitata complex	26	18	19	11	7	25	31	44	53	57	1	1	1	4	8
Caulieriella alata					1	6	9	5	15	30	1	1	3	2	1
Chaetopterus variopedatus		1													
Chaetozone spinosa			1		1	1	2	1	5	1	1	2			2
Cirratulidae sp. Juv.								1							
Cirratulus cirratus		1				1									
Diopatra ornata	2		3		2	4	1	1	3	2	4		1	2	1
Dorvillea sp. Juv.									1						
Eteone longa	4	6	11	10	3	6	3	8	10	5	1		4		1
Eteone sp. Juv.						1			2						
Euchone hancocki														1	
Euchone limnicola	3	2		3	1	1	2		2	1					
Eulalia bilineata														1	1
Eumida sanguinea	1	6	4	1	1	2		1	2		4	3	3	1	5
Exogone lourei		2	1			6	11	4	11	10	3	11	18	14	42
Exogone sp. 1						1		1	1						
Galathowenia oculata														1	
Glycera americana						3	1			2	2	2		3	5
Glycera capitata	5	10	1	7	3	6	3	14	9	9	10	4	18	2	5
Glycera sp. Indet.			1												
Glycinde armigera	11	9	11	13	13	18	14	10	3	3	4	4	7	5	9
Glycinde sp. Juv.						1									
Goniada brunnea	1	2				1	1	1	3	1	2	3	3	4	
Gyptis brevipalpa			1					1			1	1			2
Harmothoe imbricata			1												
Harmothoe lunulata					1										
Heteromastus filobranchus	4	8		12	4	24	13	36	13	44	5		1		1
Heteropodarke heteromorpha		1			2										
Kefersteinia cirrata	3	20	23	6	5	1	2	1	4	1					
Lanassa venusta venusta	2		1						1						
Laonice cirrata													1		
Leitoscoloplos pugettensis	6	7	2	7	11	17	10	12	18	18	7	4	10	7	14

Benthic Taxonomy, Station M, Denny Way Sediment Cap (continued)

Taxon	1990					1991					1992				
	Replicate					Replicate					Replicate				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Lepidasthenia berkeleyae															1
Lumbrineris californiensis	1	3	4	2	2	26	8	6	9	16	6	17	12	38	
Lumbrineris luti			1	1	1										
Lumbrineris luti						5	10	8		5					
Lumbrineris sp. Indet.	1	2	6	1	3	60	57	35	57	71	44	24	26	24	66
Magelona longicornis	1	2		1					1	1	1			1	
Maldanidae sp. Indet.														2	
Malmgreniella sp. M														1	
Mediomastus californiensis	1	17	1		2			1		1	4	0	2	1	5
Melinna elisabethae														2	
Mesochaetopterus taylori														1	
Microphthalimus aberrans						1	1			2	3	2	1	2	7
Micropodarke dubia											3	2	1	4	6
Nephtys cornuta											3	1	4		
Nephtys cornuta franciscanum	1	3	1	2		2	5	9	5	5	4	1	11	5	13
Nephtys ferruginea	6	6	1	8	4	2	2	3	6	8	4	1			
Nephtys longosetosa									1						
Nephtys sp. Juv.				1	1	2			4	1					
Nereidae sp. Juv.										1					
Nereis procera			5			1		1	1						1
Nereis zonata	10	3		2			1	1		1		1		1	
Notomastus lineatus	2	1				1		1			2				
Notomastus tenuis													2	2	7
Oligochaeta sp. Indet.								1		1					
Onuphidae sp. Juv.	3	2													
Onuphis elegans				1		2	2			1	2	1		1	4
Onuphis iridescent															
Onuphis sp. Juv.				1											
Opehlina acuminata			3	1		2	2	8	6	3	1	1			5
Orbinia (Phylo) felix				1		2								1	
Paleonotus bellis				1											
Paranaitis polynoides			1	1											
Paraproniopspio pinnata	1			3		1	1	1			4	2	3	3	
Paruvia caeca														1	
Pectinaria californiensis	8	2		2		5	11	3	6	4	2	17	34	18	25
Pectinaria granulata	5	11	8	8	5	11	14	7	14	6	18	21	14	15	20
Pholoe minuta	2	2	2	2	1			1	1	2					
Pholoides aspera								1						2	4
Phyllochaetopterus prolificus															
Phyllodoce groenlandica	1	7	3	4	3	1			1		1	1	2	2	1
Phyllodoce hartmanae	1	3	2	3	1	2	1	5	5	7	1	2	2	2	2
Phyllodoce papillosa				1					2	1	1	3		1	
Phyllodoce sp. Juv.													2	1	
Pilargis berkeleyae											1	1			
Pista brevibranchiata													1		
Pista estevanica	1														

Benthic Taxonomy, Station M, Denny Way Sediment Cap (continued)

Taxon	1990					1991					1992				
	Replicate					Replicate					Replicate				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
<i>Platynereis bicanaliculata</i>		5	3	1	1	2			1		2	2			
<i>Polycirrus</i> sp. complex	15	17	4	6	7	6	18	12	6	6	3	7	2	1	2
<i>Polydora brachycephala</i>	2	3	1	1		1	1	1		2					1
<i>Polydora cardalia</i>	3	14	4	3	2				2	2	2		1	1	2
<i>Polydora pugettensis</i>		4													
<i>Polydora socialis</i>									1						
<i>Polydora</i> sp. 1		1													
<i>Polynoidae</i> sp. Indet.		4				1									1
<i>Polynoidae</i> sp. Juv.															
<i>Praxillella gracilis</i>											1				
<i>Prionospio lighti</i>	1	2	11	2	1	4		3	8	5				4	2
<i>Prionospio multibranchiata</i>											1				2
<i>Prionospio steenstrupi</i>	10	21	21	30	13	23	29	32	25	20	67	75	114	70	112
<i>Protodorvillea gracilis</i>						2							1	2	1
<i>Sabellidae</i> sp. Indet.						1									
<i>Scoletoma luti</i>											12	19	27	18	20
<i>Sphaerodoropsis sphaerulifer</i>						1	2						3		2
<i>Sphaerosyllis brandhorsti</i>		12	14	2	3	1	1	1	12						
<i>Spiochaetopterus costarum</i>	7	7		4	7	11	9	11	16	17	39	27	34	35	31
<i>Spionidae</i> sp. Juv.				1											
<i>Spiophanes berkeleyorum</i>	1		1			1	5	7	1	2					1
<i>Sthenalais berkeleyi</i>													3		
<i>Syllis hartii</i>															4
<i>Syllis heterochaeta</i>			1												
<i>Tenonia priops</i>			1	1		1				2		1	1		1
<i>Terebellidae</i> sp. Juv.		2	1		1						1				1
<i>Trochochaeta multiseta</i>						1				2					
Mollusks															
<i>Acila castrensis</i>			1												
<i>Adontorhina cyclia</i>							1								
<i>Alvania compacta</i>	96	8	4	3	1	6		1	1		8				1
<i>Axinopsida serricata</i>	2	2	4	1	16	21	19	16	25	11	71	77	153	58	95
<i>Bivalvia</i> sp. Juv.	21	18	29	26	4	2		1		1					
<i>Clinocardium blandum</i>							2			1					
<i>Clinocardium nuttalli</i>		1	1				1								
<i>Clinocardium</i> sp. Juv.				1											
<i>Compsomyax subdiaphana</i>	2				1		2	2		3		2	2	2	1
<i>Crepidatella lingulata</i>											1				
<i>Cylidina alba</i>	1	1	1	1											
<i>Cylidina alba</i>							2								
<i>Gastropteron pacificum</i>				2	1		1		5						
<i>Hiatella arctica</i>	1	1	1												
<i>Lacuna</i> sp. Indet.								1							
<i>Lacuna vincta</i>													1		
<i>Lucinidae</i> sp. Juv.														1	
<i>Lucinoma annulata</i>									1	1					

Benthic Taxonomy, Station M, Denny Way Sediment Cap (continued)

Taxon	1990					1991					1992				
	Replicate					Replicate					Replicate				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Lucinoma annulatum															1
Lyonsia californica	2	8				1	2	1		1			1		1
Lyonsia sp. Juv.	5	3	4	9	6	1		1			1		2	2	
Macoma calcarea															
Macoma moesta alaskana											1		1		
Macoma obliqua											4	3	11	2	
Macoma sp. Juv.	96	233	183	167	177	5	8	73	9	4	31	22	33	23	5
Macoma yoldiformis									2		1				
Megacrenella columbiana	1	1				1	1	1	4	2	1	3	4		
Melanochlamys diomedea	1			1	1										1
Mya arenaria	1	1													
Mya sp. Juv.		1													
Mysella tumida	7	2	1	3		9	10	9	3	7	5	1	5	2	1
Mytilidae sp. Juv.	2			1											
Nassarius mendicus															1
Natica clausa	1	1	1	1						1					
Nemocardium centrifilosum											1				
Nitidella gouldi	5	3			2	3	1	2	14	15	2	5	4	12	6
Nucula tenuis	4	1		5	3	2	2	6	1	1	3	3	1	1	
Olivella baetica				1											
Olivella biplicata											1	1			1
Pandora filosa								1			4		5		4
Parvilucina tenuisculpta							1								
Petricola carditoides														1	
Polinices sp. Juv.	1						2	1			2	7	2	7	9
Psephidia lordi			1		1		1		1						
Rictaxis punctocaelatus						1			1						
Saxidomus giganteus				1											
Solen sicarius	1	1	3	6	1	3	3		2	1					
Tellina carpenteri							3	1	3						
Tellina sp. Juv.		1	2												
Thyasira gouldi														1	
cf. Tresus capax														1	
Turbonilla sp. Indet.							1	8		2		3	1	1	
Yoldia scissurata														1	
Crustaceans							2								
Aoroides columbiae							1								
Aoroides exilis															4
Aoroides intermedius															
Aoroides sp. Indet.			3	1		1		1	2					1	
Aoroides spinosus							3			3					
Balanus crenatus											1				1
Byblis millsi	1	1	2			1	2	1	2	1	1	1			1
Callianassa californiensis		2							1	7					
Callianassa sp. Indet.	2					1	3	5	1	1	4	4	6	3	3
Calliopius sp. Indet.											1				1

Benthic Taxonomy, Station M, Denny Way Sediment Cap (continued)

Taxon	1990					1991					1992				
	Replicate					Replicate					Replicate				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Cancer gracilis											2				
Cancer magister		2				4	1		1						
Cancer sp. Indet.			1			3						7	8	2	3
Cancridae megalopa	2														
Cancridae sp. Indet.									2						
Caprellidae sp. Indet.								1							
Cirripedia sp. Indet.						82	15		14						
Crangon alaskensis	1	1				1		1			1	2			1
Crangon stylostris						2									
Cylindroleberididae sp. Indet.			1												1
Diastylis alaskensis											1	2			2
Diastylis sp. Indet.		3				2	6	3	2	2					
Dynamenella sp. (glabra?)															1
Euphilomedes carcharodonta	5	16	24	16	9	100	155	74	138	47	102	292	399	294	273
Euphilomedes producta											4	4			3
Harpacticoida sp. Indet.	1	8													
Hippolytidae sp. Indet.											3				2
Leptochelia dubia	1		1			14	4	7	9	15					
Leptochelia savignyi											42	49	87	31	150
Mesocrangon munitella											4	2			2
Monoculodes spinipes									1						
Munna ubiquita							3		1						
Pachynus barnardi														1	
Pagurus sp. Indet.									3						
Photis brevipes		1					4	1	5	1					
Photis lacia		2							1						
Pinnixa schmitti											2	1			
Pinnixa sp. Indet.	2		1			1			1	2					
Pleusympetes subglaber	1	4		1		3	2		3			3			
Rutiderma lomae												1			
Synchelidium rectipalmum	1					1	3	2	2	3					
Synchelidium shoemakeri											2	1	1	1	2
Synchelidium sp. Indet.									2						
Westwoodilla caecula												1			1
Others															
Anthozoa sp. 1	2	7	4	3		4		1	2	1					1
Arhynchite pugettensis						1				2					
Cucumaria piperata	6	1				1									
Cucumaria sp. A												1			1
Golfingia pugettensis															
Nemertinea sp. Indet.	2	4	5	1	7			1	1	2		2	2	1	4
Ophiuroidea sp. Juv.								1	1					2	

Benthic Taxonomy, Station J, Denny Way Sediment Cap

Taxon	1990 Replicate					1991 Replicate					1992 Replicate				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Polychaetes															
<i>Amage anops</i>						1				1					
<i>Ampharete finmarchica</i>						2		1	1	1					
<i>Anobothrus gracilis</i>	1						2	1	1	4					
<i>Aphelochaeta multifilis</i>	35		1	27	4	117	33	22	26	28	1	2	2	1	5
<i>Aphelochaeta secundus</i>											1				
<i>Aricidea catherinae</i>											1				
<i>Aricidea lopezi</i>						1									
<i>Armandia brevis</i>	1						1			2					
<i>Artacamella hancocki</i>						1		1							
<i>Capitella capitata complex</i>	20	24	9	6		180	44	4	23	28	18	23	4	4	50
<i>Capitellidae</i> sp. Indet.					1	1			1						
<i>Caulieriella alata</i>						15			2	2	3	1	1	1	
<i>Chaetopterus variopedatus</i>									1						
<i>Chaetozone spinosa</i>						2	4	2	1	1	1	2			3
<i>Cirratulidae</i> sp. Indet.										1		1			
<i>Cirratulus cirratus</i>										2					
<i>Cossura</i> sp. Indet.						2					2				1
<i>Demonax medius</i>															
<i>Diopatra ornata</i>	3		1	1		3	1	1		1	2	1			2
<i>Dorvillea caeca</i>						5									
<i>Dorvillea</i> sp. Juv.						1									
<i>Dorvilleidae</i> sp. Indet.									1						
<i>Eteone longa</i>	8		2	2		12	7	6	4	2	1		2	2	2
<i>Eteone pacifica</i>											1				
<i>Euchone hancocki</i>											1				
<i>Euchone limnicola</i>	1	2	1	1			2		1	1	2				
<i>Eumida sanguinea</i>						2	1	1		2	2	3	3	1	1
<i>Exogone lourei</i>					2	6	1		1	3	16	11	3	3	6
<i>Exogone</i> sp. 1						1									
<i>Flabelligera affinis</i>	1											1			
<i>Gattyana cirrosa</i>															
<i>Gattyana treadwelli</i>	1										1				
<i>Glycera americana</i>										1	3		3		
<i>Glycera capitata</i>	4	4	11	4		23	15	4	3	10	13	9	5	1	8
<i>Glycinde armigera</i>	6		1	4		4	8	10	3	4	2	2	1	5	3
<i>Goniada brunnea</i>						2		3	2	2	3	1	4	4	1
<i>Gyptis brevipalpa</i>	1														2
<i>Harmothoe imbricata</i>			1								1				
<i>Hesionidae</i> sp. Indet.															
<i>Hesionidae</i> sp. Juv.															1
<i>Heteromastus filobranchus</i>	20	5	7	9		68	28	19	9	14		6		2	16
<i>Heteropodarke heteromorpha</i>															1
<i>Kefersteinia cirrata</i>	8		8			1					1	1			
<i>Lanassa venusta</i> <i>venusta</i>						1					1	1			
<i>Leitoscoloplos puggettensis</i>	12			3		12	12	15	11	6	7	16	11	12	9

Benthic Taxonomy, Station J, Denny Way Sediment Cap (continued)

Taxon	1990 Replicate					1991 Replicate					1992 Replicate				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
<i>Lepidonotus squamatus</i>					1										
<i>Lumbrineris californiensis</i>	3			1		10	7	2				38	8	6	11
<i>Lumbrineris luti</i>						18	17	12	12	23					
<i>Lumbrineris</i> sp. Indet.	3			1		101	45	25	25	25	94	12	10	23	19
<i>Lumbrineris</i> sp. Juv.				1											
<i>Maldanidae</i> sp. Indet.											1				
<i>Mediomastus californiensis</i>	2		10		2						3	2	27	2	2
<i>Melinna elisabethae</i>													1		1
<i>Microphthalmus aberrans</i>						1	2				2		7	2	2
<i>Micropodarke dubia</i>													7	2	1
<i>Nephtys cornuta</i>													25	9	3
<i>Nephtys cornuta franciscanum</i>	6	1	2	3		24	14	1	1	9					
<i>Nephtys ferruginea</i>	4	9	2	12		9	3	1	2	4	11	7	2	2	3
<i>Nephtys</i> sp. Juv.				1		1					4				
<i>Nereis procura</i>						1							2	2	3
<i>Nereis</i> sp. Juv.												1			
<i>Nereis zonata</i>	1				1										
<i>Notomastus lineatus</i>	1						2		2					1	1
<i>Notomastus tenuis</i>													1		
<i>Oligochaeta</i> sp. Indet.						2				1	1				
<i>Onuphis elegans</i>				1			1								
<i>Onuphis iridescent</i>													2	2	1
<i>Onuphis</i> sp. Juv.					1						1				
<i>Onuphis</i> sp. Juv.															
<i>Ophelina acuminata</i>	1	2	2			6	8	6	7	5					
<i>Ophiodromus pugettensis</i>		1													
<i>Orbinia (Phylo) felix</i>							1			1					
<i>Orbiniidae</i> sp. Juv.							1								
<i>Paranaitis polynoides</i>											1				
<i>Paraprinospio pinnata</i>	2	3	1	4		5	4	1	1	3	6	8			5
<i>Paruvia caeca</i>											2				1
<i>Pectinaria californiensis</i>	3	3	5	3		15	15	3	6	14	12	21	8	6	1
<i>Pectinaria granulata</i>	2	2	2	2		3	2	4		4	18	4	5	1	17
<i>Pholoe minuta</i>	2		1			2									
<i>Pholoides aspera</i>	1														
<i>Phyllochaetopterus prolifica</i>					3						2	4	1	5	6
<i>Phyllodoce groenlandica</i>	3		2	4		1	1	1	1		1	1	1	1	
<i>Phyllodoce hartmanae</i>		2	1	1		3	2		1	1	2	3	1	2	3
<i>Phyllodoce papillosa</i>		1									1				2
<i>Phyllodocidae</i> sp. Juv.											1				
<i>Platynereis bicanaliculata</i>					3						1	1			
<i>Polycirrus</i> sp. complex	11	1	12	4		11	9	17	15	14		3	2	3	
<i>Polydora brachycephala</i>	2	2		1		3									
<i>Polydora cardalia</i>	1	2	1	6		3	1	2			2	4		1	
<i>Polydora giardi</i>						1								1	
<i>Polydora socialis</i>														2	

Benthic Taxonomy, Station J, Denny Way Sediment Cap (continued)

Taxon	1990 Replicate					1991 Replicate					1992 Replicate				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Polynoidae sp. Indet.						1									
Polynoidae sp. Juv.												1			
Prionospio lighti	2		5			22	4	1		1	6	9	5	4	16
Prionospio multibranchiata	1														
Prionospio steenstrupi	19	2	3	5		70	40	15	24	42	86	94	36	62	76
Protodorvillea gracilis															1
Scoletoma luti											18	24	35	19	33
Sphaerodoropsis sphaerulifer						2					1	1	1	1	
Sphaerosyllis brandhorsti			5	5		15	1			3	1			5	1
Spiochaetopterus costarum	7	7	8	6		7	8	6	5	7	11	12	15	8	13
Spiophanes berkeleyorum						2	2	2							
Tenonia priops							2	1					2	1	1
Terebellidae sp. Indet.										1					
Terebellidae sp. Juv.					1										
Trochochaeta multisetosa					1			2							
Mollusks															
Aeolidacea sp. Juv.						16									
Alvania compacta	19	21	7	271		2	1								1
Axinopsida serricata			2	7		66	29	25	20	10	144	95	71	76	69
Barleeia sp. Indet.						1	1								
Bivalvia sp. Indet.		1													
Bivalvia sp. Juv.	40		19	2		16				1					
Cephalaspidea sp. Indet.		1													
Compsomyax subdiaphana						4	1	1	1	2		3		1	2
Cylichna alba										1					
Cylichna attonsa											2				
Gastropoda sp. Juv.	3		1												
Gastropteron pacificum	1		2				2	1		1					
Lucinoma annulatum											2				2
Lyonsia californica			1			2							1		
Lyonsia sp. Juv.	1		3	1							1				
Macoma calcarea								1					2		
Macoma carlottensis													1		
Macoma lama									1						
Macoma obliqua											10	3	2	9	
Macoma sp. Juv.	130	49	201	82		12	7	4	3	6	35	34	10	18	19
Megacrerella columbiana							1			3	3	1			
Megacrerella columbiana										1					
Melanochlamys diomedea		1													
Mysella tumida	1	1				2	1	1	1	1	16	8	1	2	5
Mytilidae sp. Juv.						1									
Natica clausa	1		1				1						1		
Nemocardium centrifilosum													1		
Nitidella gouldi			1	5		1	9		2		14	12	5	4	1
Nucula tenuis	2	1	4	1		6	6	1	8	3	7	3	1	4	2
Olivella baetica													1		

Benthic Taxonomy, Station J, Denny Way Sediment Cap (continued)

Taxon	1990 Replicate					1991 Replicate					1992 Replicate				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Pandora sp. Indet.														1	
Parvilucina tenuisculpta											64	2	5		5
Polinices sp. Juv.															
Psephidia lordi														1	
Rictaxis punctocaelatus	1					2	3		2				3		2
Saxidomus giganteus													1		
Solen sicarius									1						
Tellina carpenteri			2			5		2							
Tellina sp. Juv.														1	
Turbanilla sp. Indet.			1			4	1	2	9	4	1		1	1	1
Crustaceans															
Aoroides sp. Indet.						1	3			1					1
Aoroides spinosus	3						1			1					
Balanus crenatus											3				
Byblis millsi		1							2	1					1
Callianassa californiensis				1		10			5						
Callianassa sp. Indet.	2		1			5	9	2		2	4	4	8	8	12
Calliopius sp. Indet.							1	2	1						
Cancer sp. Indet.	1			1				1			1	1	1	1	2
Cancridae sp. Indet.	3														
Cirripedia sp. Indet.						2			1						
Crangon alaskensis						2	1		1			1	1		2
Cylindroleberididae sp. Indet.	1		2			1				1	2				
Diastylis alasensis												3	3		
Diastylis sp. Indet.	4					1	3	4	1	1					
Eudorella pacifica											1				
Euphilomedes carcharodonta	17	4	21	5		114	65	54	47	50	232	233	282	231	153
Euphilomedes producta						2				3	3	6	1	1	1
Harpacticoida sp. Indet.			3			2									
Leptochelia dubia	1					21	1	3							
Leptochelia savignyi											239	231	12	5	62
Leptostylis villosa															1
Melita desdichada	2														
Monoculodes sp. Indet.				1						1					
Monoculodes sp. Indet.															
Monoculodes spinipes				2		2									
Munna ubiquita	2					1									
Ostrocoda sp. Indet.						1									
Pagurus granosimanus									1						
Pagurus sp. indet.									1		1				
Parapleustes sp. Indet.										2					
Photis brevipes		3		1											
Pinnixa schmitti													1	1	
Pinnixa sp. Indet.				1				1	3						
Pleusympetes subglaber	2		1			8								3	
Pycnogonida sp. Indet.			1			1									

Benthic Taxonomy, Station J, Denny Way Sediment Cap (continued)

Taxon	1990 Replicate					1991 Replicate					1992 Replicate				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Rhepoxygnus sp. Indet.						1									
Rutiderma lomae											1				
Synchelidium rectipalmum	2			3		1		2	1						
Synchelidium shoemakeri															1
Westwoodilla caecula											1		1	1	2
Other															
Anthozoa sp. 1							3	3			1	1			2
Cucumaria piperata	1		3	4									2		
Cucumaria sp. A															1
Golfingia pugettensis				1											
Hirudinea sp. Indet.															
Insecta sp. Indet.						1	1								
Nemertinea sp. Indet.	3			4		3	2	1	7	1	3	6	1	4	4
Ophiuroidea sp. Juv.	2			2							4	2	1	1	4

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